Service Manual

Vol. 8

Programmable Tuner/Timer Unit

Programmable Tuner/Timer Unit



Programmable Tuner/Timer Unit PV-A35 is not available independently.

Available set number is PV-4500 which consists of PV-4000 (deck) and PV-A35P.



SPECIFICATIONS

 $\begin{array}{lll} \mbox{Power Source:} & 120\,\mbox{VAC} \pm 10\,\%, \, 60\,\mbox{Hz} \pm 0.5\,\% \\ \mbox{Power Consumption:} & \mbox{Approx.} \, 52\,\mbox{W DC out} \, 12\,\mbox{V} \, 1.6\,\mbox{A} \\ \mbox{Television System:} & \mbox{EIA Standard} \, (525\,\mbox{lines}, \, 60\,\,\mbox{field}) \\ \mbox{Timer:} & 2\,\,\mbox{weeks/8 programs programmable} \end{array}$

timer

Input: VHF Ch2-Ch13, 75Ω unbalanced

UHF Ch12-Ch83, 300Ω balanced

RF (Ch3 or Ch4)

Output: Video: (10P connector)

 $1.0\,\mathrm{Vp}$ -p, $75\,\Omega$ unbalanced

Audio: (10P connector)

 $-6\,dB$, 600Ω unbalanced AC Outlet: $120\,VAC$ Max $300\,W$

unswitched

Operating

Temperature: $32^{\circ}F - 104^{\circ}F$ ($0^{\circ}C - 40^{\circ}C$)

Operating Humidity: 10%-75%Weight: 10.2 lbs (4.6 kg)

Dimensions: $11-7/16 \text{ "(W)} \times 4-3/8 \text{ "(H)} \times 9-11/16 \text{ "(D)}$ $(289(\text{W}) \times 110(\text{H}) \times 245(\text{D}) \text{ mm})$

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

Panasonic_®

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CONTENTS

ELECTRICAL ADJUSTMENT PROCEDURES	8- 1
LOCATION OF TEST POINTS AND CONTROLS	8- 3
BLOCK DIAGRAMS	
l. Power Supply Block Diagram	8- 4
2. CH Selector & Demodulator Block Diagram	8- 5
3. Programmable Timer Block Diagram	8- 6
SCHEMATIC & CIRCUIT BOARD DIAGRAMS	
1. Tuner Connection C.B.A. (VEPSO721A1)	8- 7
2. Power & Input Select Switches C.B.A. (VEPS00102)	8- 7
3. Door Switch (AFC Switch) C.B.A. (VEPS00104)	8- 7
4. Power TRs C.B.A. (VEPS0114A1)	8- 7
5. Battery Charge Lamps C.B.A. (VEPS00103A1)	8- 7
6. Power Supply Schematic Diagram	8-8
7. Power Supply C.B.A. (VEPSOII3AI)	8- 9
8. Programmable Timer Schematic Diagram	8-10
9. Programmable Timer C.B.A. (VEPSO723Al)	8-11
10. Timer Operating C.B.A. (VEPSO724A1)	8-11
ll. CH Selector & TV Demodulator Schematic Diagram	8-12
12. TV Demodulator C.B.A. (VEPS0720A1)	8-13
13. CH Select SWs & CH L.E.D.s.C.B.A. (VEPS0726A1)	8-13
14. CH Selector C.B.A. (VEPS0725A1)	8-13
15. U/V Band Select SWs & Potentiometer C.B.A. (VEPS0722A1)	8-13
16. Antenna Terminal Board Schematic Diagram	8-14
17. Antenna Terminal Board Unit (ENPD607)	8-14
18. UHF/VHF Tuner Schematic Diagram	8-14
19. UHF/VHF Tuner Unit (TNV76704F2)	8-14
CIRCUIT BOARD LAYOUT	8-15
INTERCONNECTION SCHEMATIC DIAGRAM	8-15
EXPLODED VIEWS (Programmable Tuner/Timer Section)	8-16
MECHANICAL REPLACEMENT PARTS LIST	8-16
ELECTRICAL REPLACEMENT PARTS LIST8-17	√8 <i>-</i> 24

ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete electrical adjustment procedures which may be required for electronic circuits of ELECTRONIC PROGRAMMABLE TIMER/TUNER UNIT.

1. Test Equipments

To perform the electrical adjustments completely, the following equipments are required.

1.DVM (Digital Volt Meter)

Voltage Range: 0.001 - 50V

2.Frequency Counter

Frequency Range: 0 - 10MHz

2. Adjustment Procedures

These adjustment Procedures consist of the following sections.

1. Power Supply Section

2. Programmable Timer Section

2-1. Power Supply Section



Fig.El.

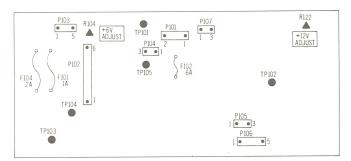
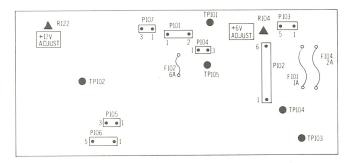


Fig.E2.



(From Components Side View) Fig.E3.

2-1-1. +12 VDC Adjustment

Test Point: TP102

Adjustment: R122 (+12 VDC ADJ)

1. Check the AC input voltage for 120 VAC and then connect the Electronic Programmable Timer/Tuner Unit for

the Deck as shown below.

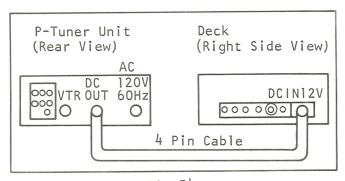
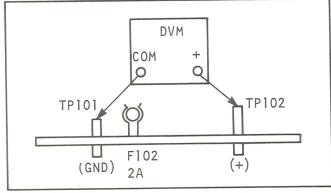


Fig.E4.

- 2. Turn on the Power Switch on the Deck.
- 3. Connect the DVM between TP102 (+) and TP101 (GND) on the Power Supply Board as shown below.



Power Supply Board Fig.E5.

4. Adjust the +12 VDC ADJ (R122) for $\pm 12 \pm 0.05$ VDC.

2-1-2. +6 VDC Adjustment

Test Point: TP105

Adjustment: R104 (+6V DC ADJ)

1. Connect the DVM between TP105 (+) and TP101 (GND) on the Power Supply Board as shown below.

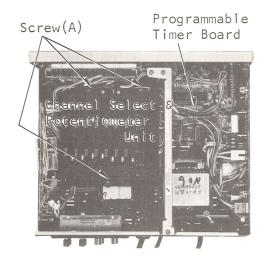
DVM COM + O O TP105 TP101 (GND)(+)

Power Supply Board Fig.E6.

2. Adjust the +6 VDC ADJ (R104) for $+5.65 \pm 0.05$ VDC.

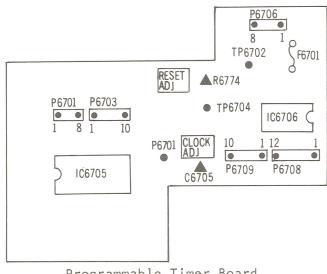
2-2. Programmable Timer Section

When this section is adjusted, Remove 3 screws(A) and channel select & potentiometer unit as shown below.



Programmable Timer Board Layout (Up Side View)

Fig.E7.



Programmable Timer Board (From Components Side View) Fig.E8.

2-2-1. Clock Adjustment

Test Point: Pin 40 of IC6705 or IC6706 Adjustment: C6705 (CLOCK ADJ)

[CAUTION]

Since the trimmer C6705 (CLOCK ADJ) has already been adjusted critically in factory, do not try to adjust the trimmer except after replacing crystal (X6701) and trimmer (C6705).

- 1. Connect the Frequency Counter to Pin 40 of IC6705 or IC6706.
- Adjust the CLOCK ADJ (C6705) for 262,144 ± 5 Hz. (Since this frequency is used for clock of timer, it is required to as precisely as possible.)

2-2-2. Reset Voltage Adjustment

Test Points: TP6702, TP105

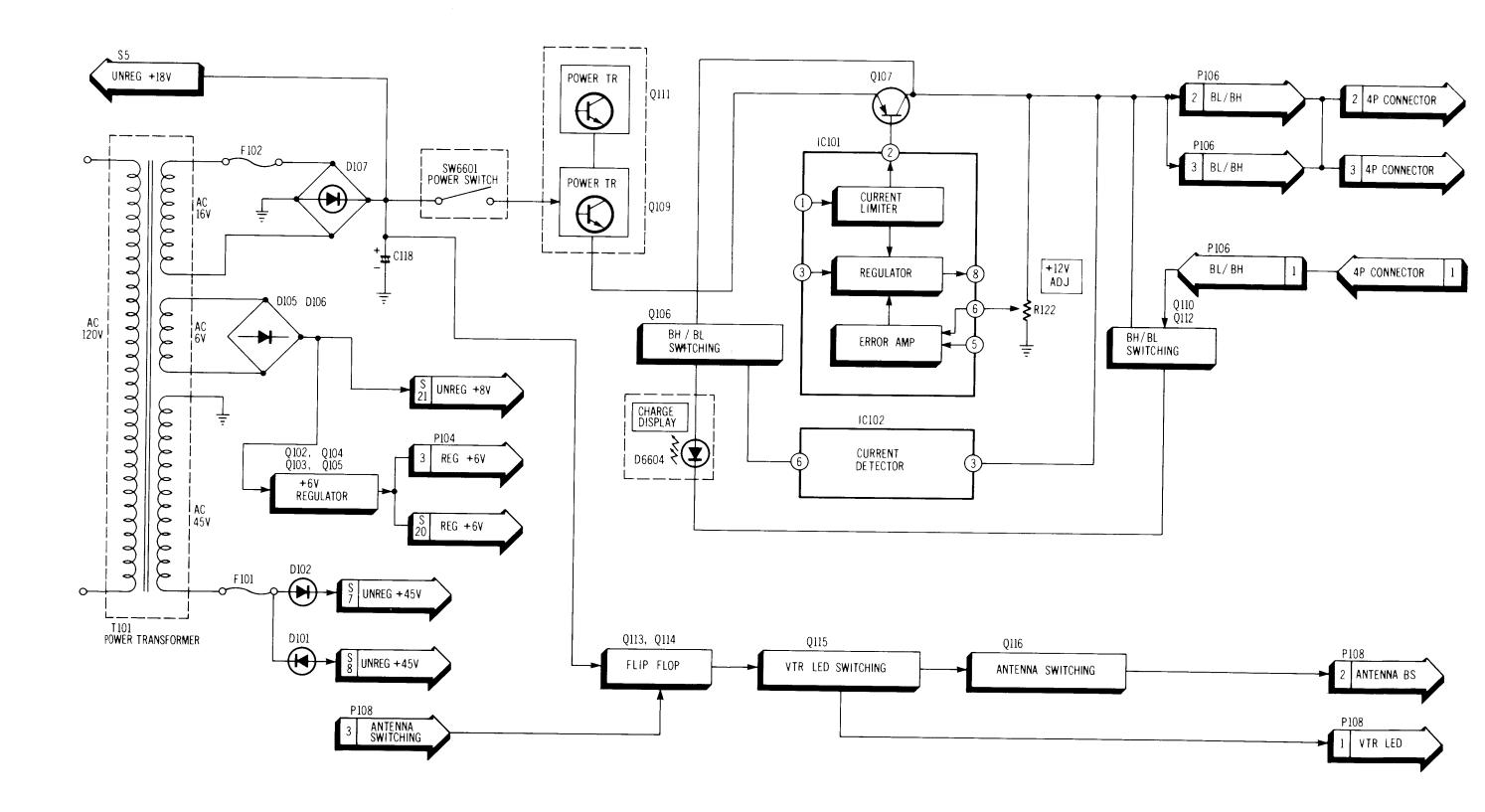
Adjustment: R6774 (RESET VOL ADJ)
1. Connect the VTVM to TP6702 on the

- Programmable timer board.
- 2. Adjust the +6 VDC ADJ (R104) on the Power Supply board (See Fig. E6) to 4.0 ± 0.05 V at TP6702 on the programmable timer board.
- 3. Turn the RESET VOL ADJ (R6774) on the same board fully C.W.
- 4. Slowly adjust the RESET VOL ADJ (R6774) C.C.W. and find the extingushing point of the timer display tube.
- 5. Set the +6 VDC ADJ (R104) to 5.65 VDC at TP105 on the power supply board.

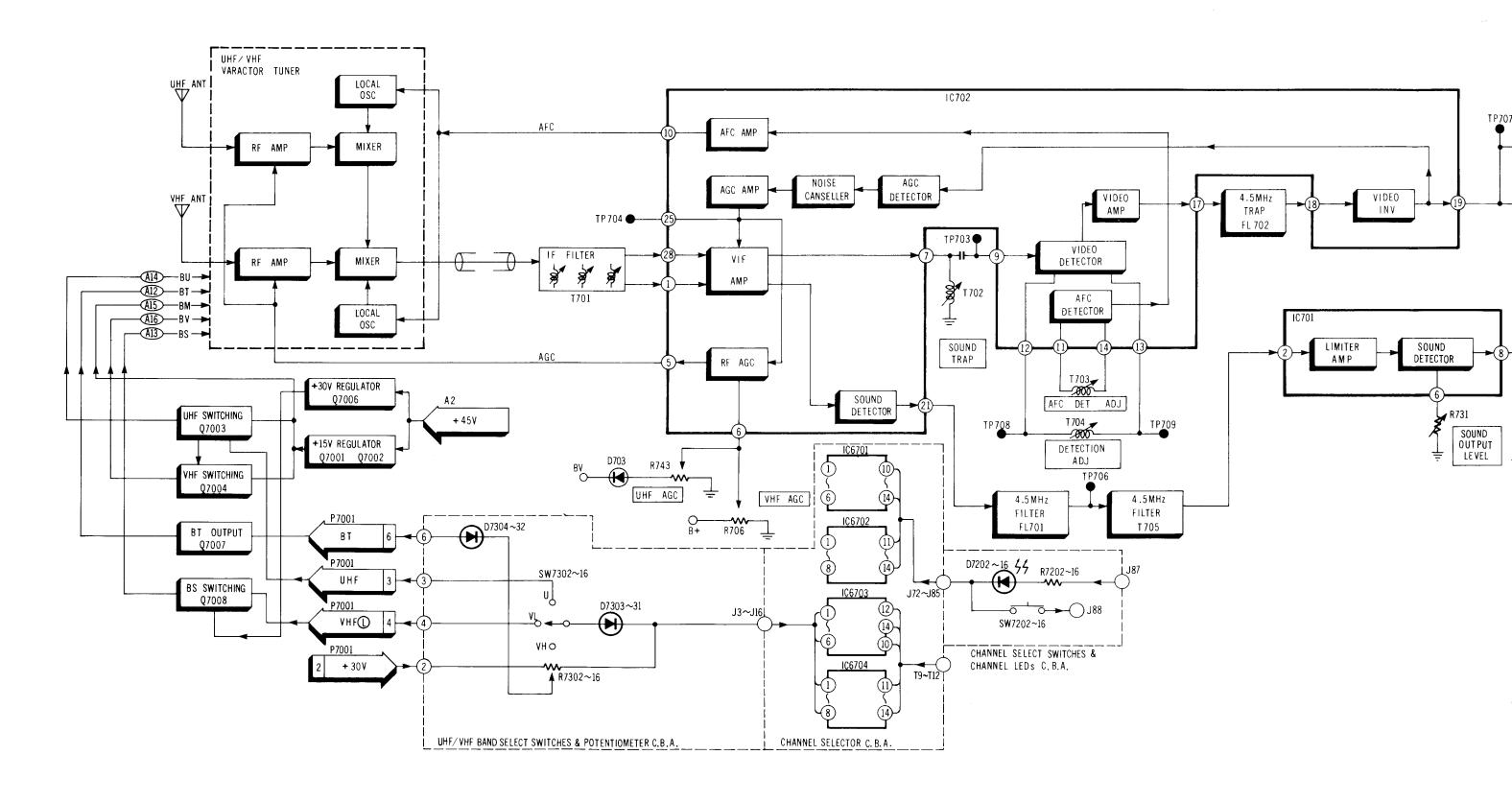
Location of Test Points and Control

Power Supply C.B.A.	TV Demodulator C.B.A.	Programmable Timer C.B.A.
(VEPSO113A1)	(VEPS0720Al)	(VEPS0723Al)
Power Supply C.B.A.	TV Demodulator C.B.A.	Programmable Timer C.B.A.
R122 P107 P101 TP101 ADJUST A	8	P6701 P6703 RESET AR6774 P6701 P6703 TP6704 IC6706 CLOCK 10 12 1 P6705 P6709 P6708

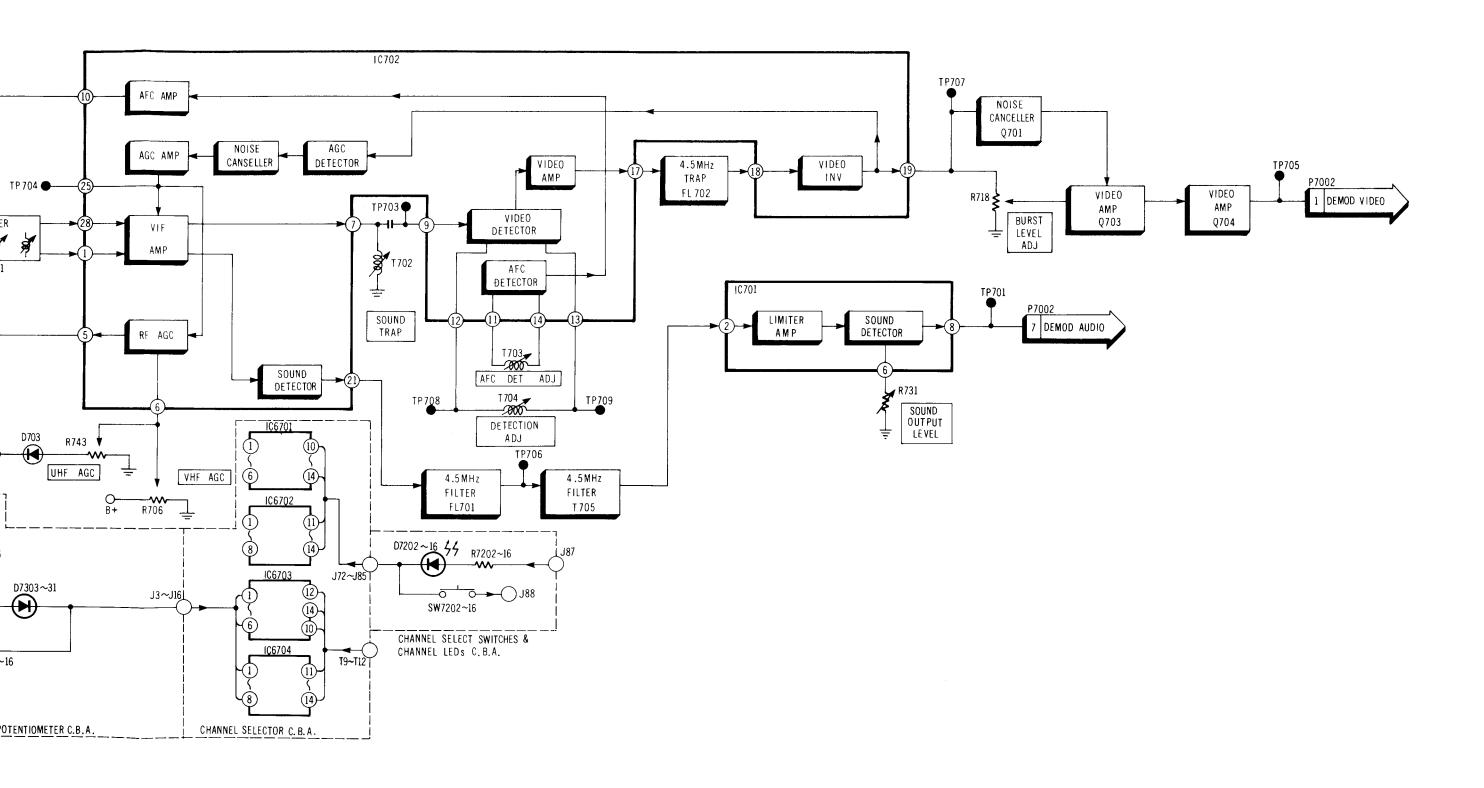
POWER SUPPLY BLOCK DIAGRAM



CH. SELECTOR & TV DEMODULATOR BLOCK DIAGRAM

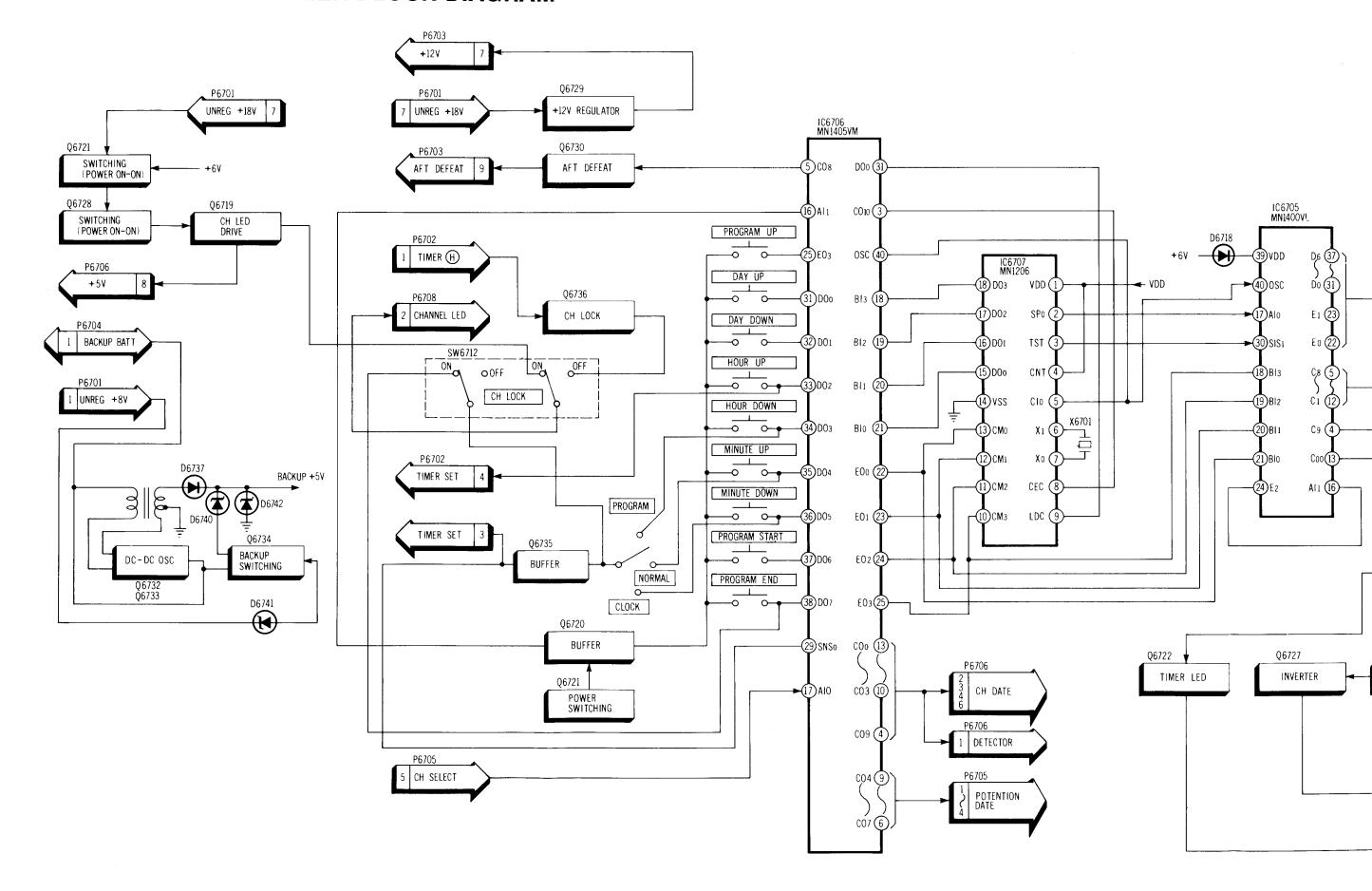


CK DIAGRAM

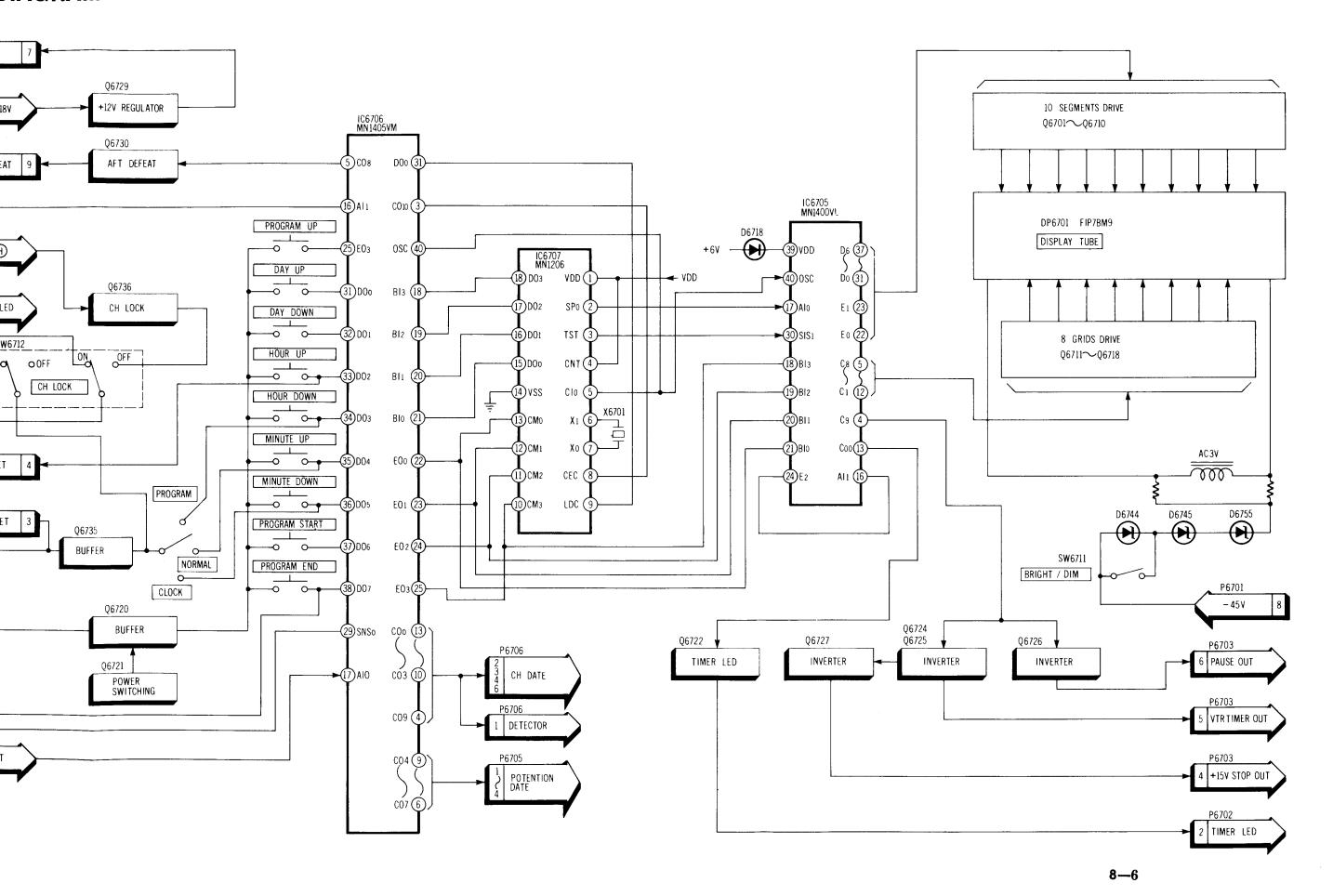


8-6 PROGRAMMABLE TIMER BLOCK DIAGRAM

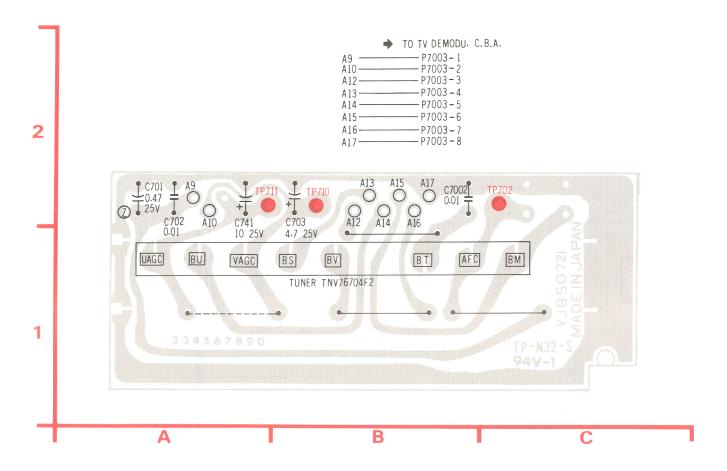
PROGRAMMABLE TIMER BLOCK DIAGRAM



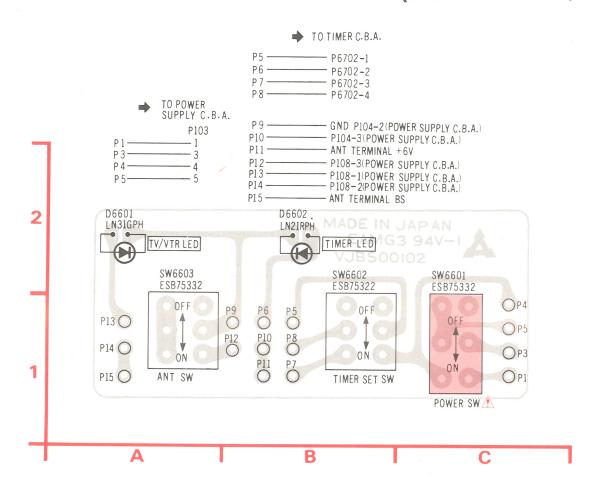
DIAGRAM



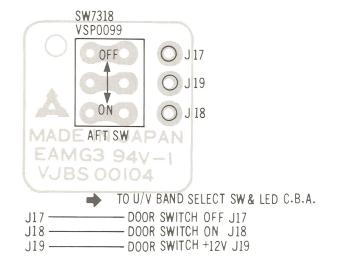
TUNER CONNECTION C.B.A. (VEPS0721A1)



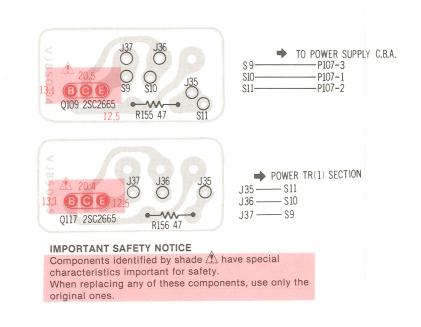
POWER & INPUT SELECT SWITCHES C.B.A. (VEPS00102A1)



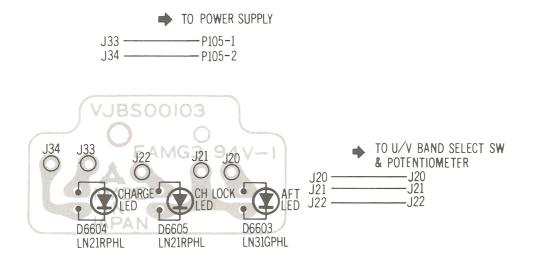
DOOR SWITCH C.B.A. (VEPS00104A1) (AFC SWITCH)



POWER TRS C.B.A. (VEPS0114A1)



BATTERY CHARGE LAMPS C.B.A. (VEPS00103A1)



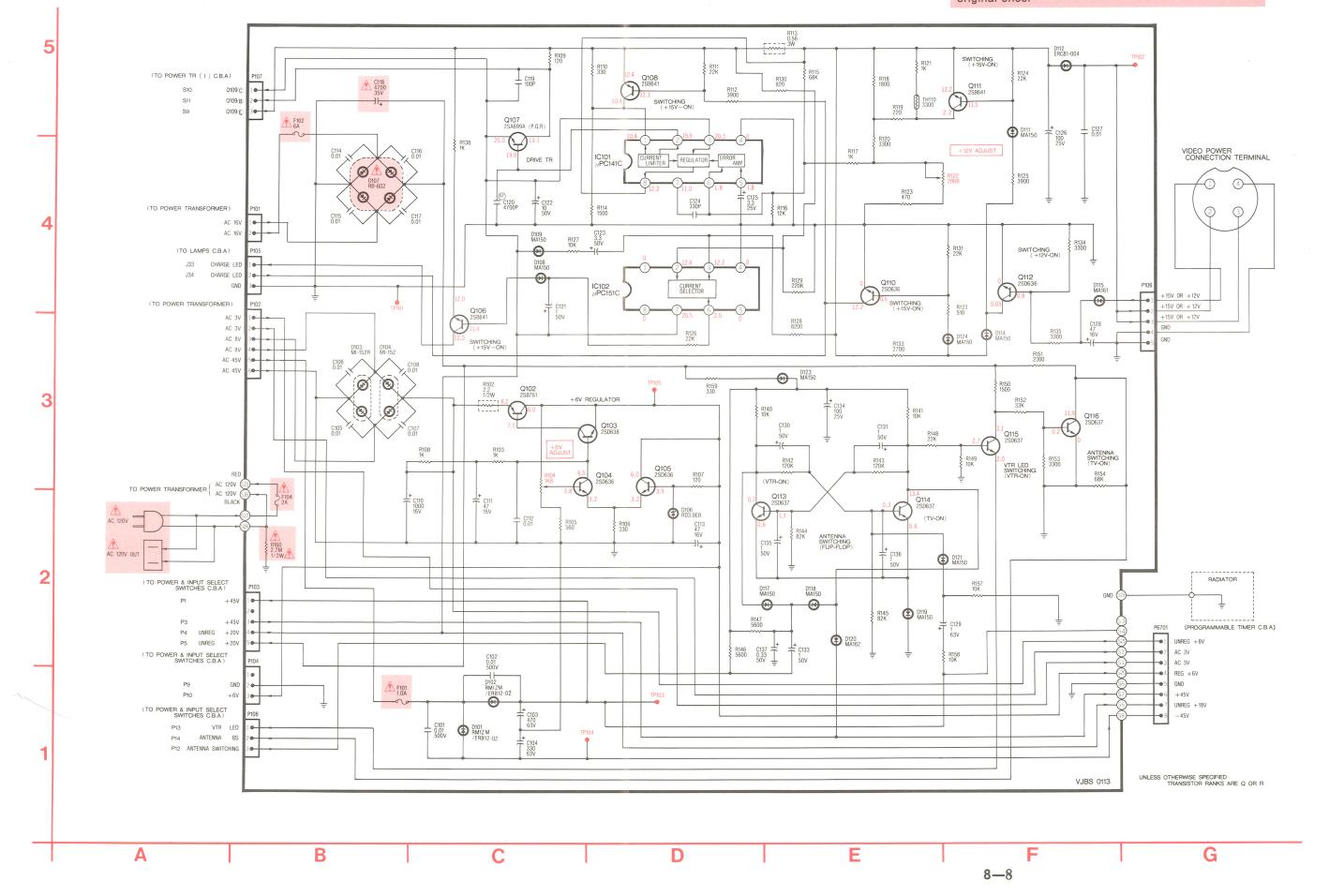
8-8
POWER SUPPLY
SCHEMATIC DIAGRAM

POWER SUPPLY SCHEMATIC DIAGRAM

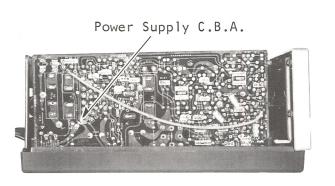
IMPORTANT SAFETY NOTICE

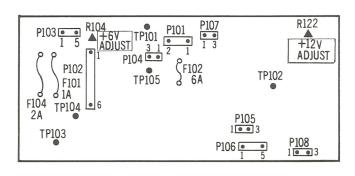
Components identified by shade A have special characteristics important for safety.

When replacing any of these components, use only the original ones.



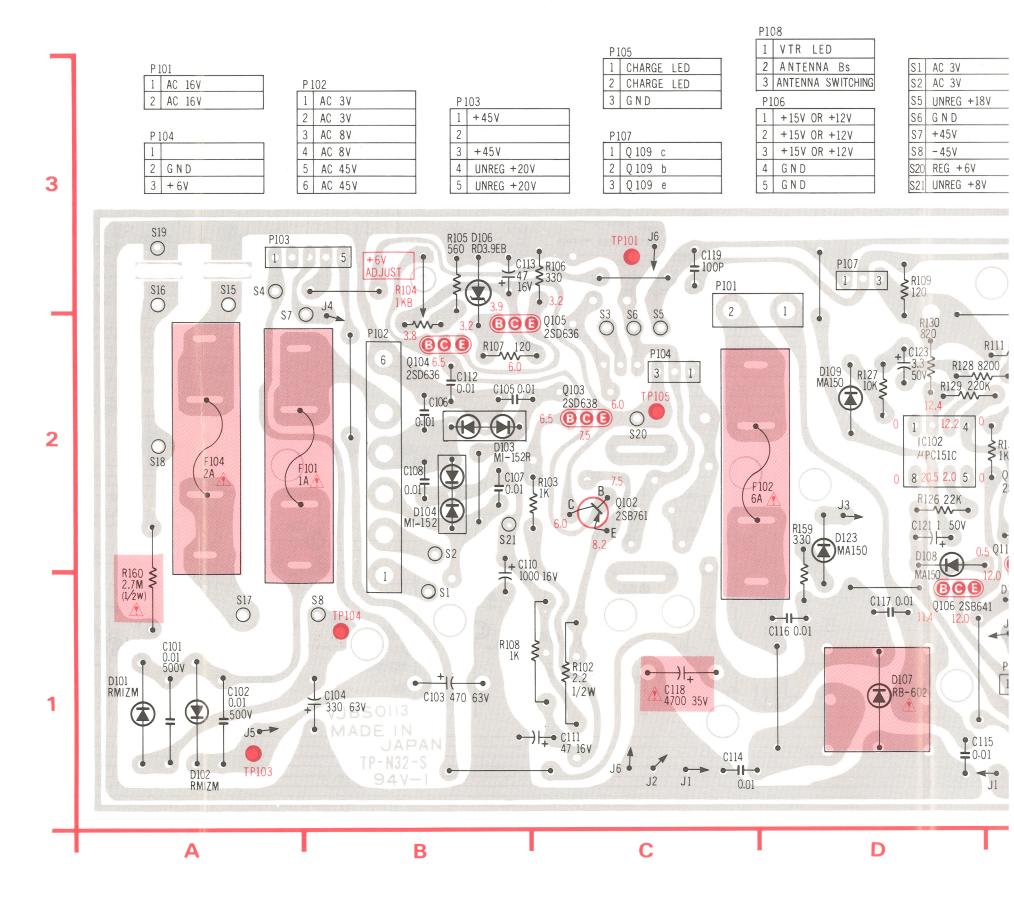
POWER SUPPLY C.B.A (VEPS0113A1)





Tr. NO.	Е	В	С
Q102	8.2	7.5	6.0
Q103	6.0	6.5	7.5
Q104	3.2	3.8	6.5
Q105	3.2	3.2 3.9	
Q106	12.0	11.4	12.0
Q107	20.0	19.9	13.1
Q108	12.4	12.3	10.4
Q110	0	0.5	12.2
Q111	12.2	11.5	2.2
Q112	0	0.8	0.03
Q113	0.6	1.3	0.7
Q114	0.6	0.3	13.4
Q115	2.0	2.7	2.1
Q116	0	0.2	11.9

	IC101	IC102
1	10.4	0
2	19.9	12.4
3	20.5	12.2
4	0	0
5	1.8	0
6	1.8	2.0
7	11.0	20.5
8	12.2	0



C-2 C-2

B-2

B-2

D-1 E-3 E-2

E-2 F-2

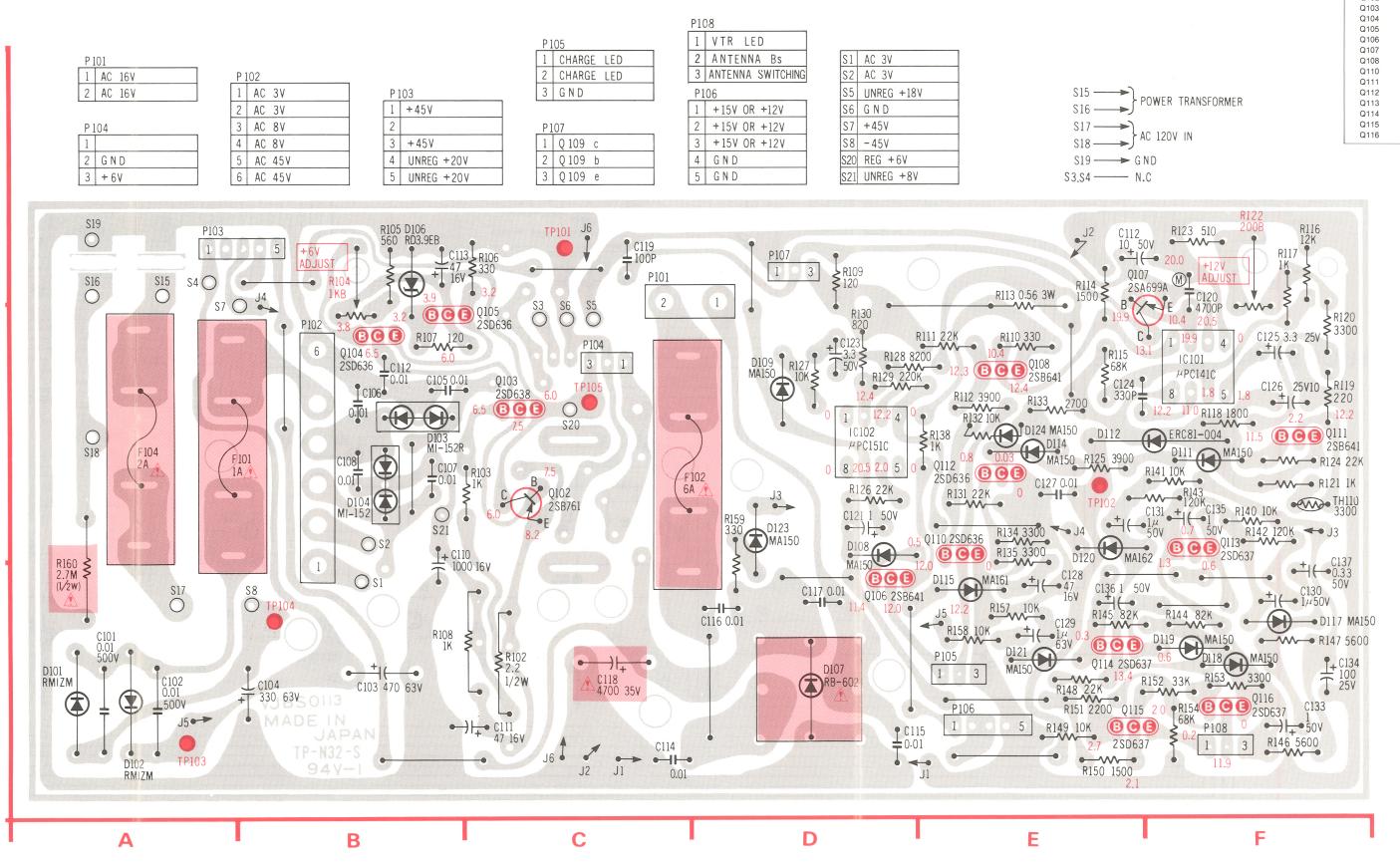
F-2

E-1 E-1

F-1

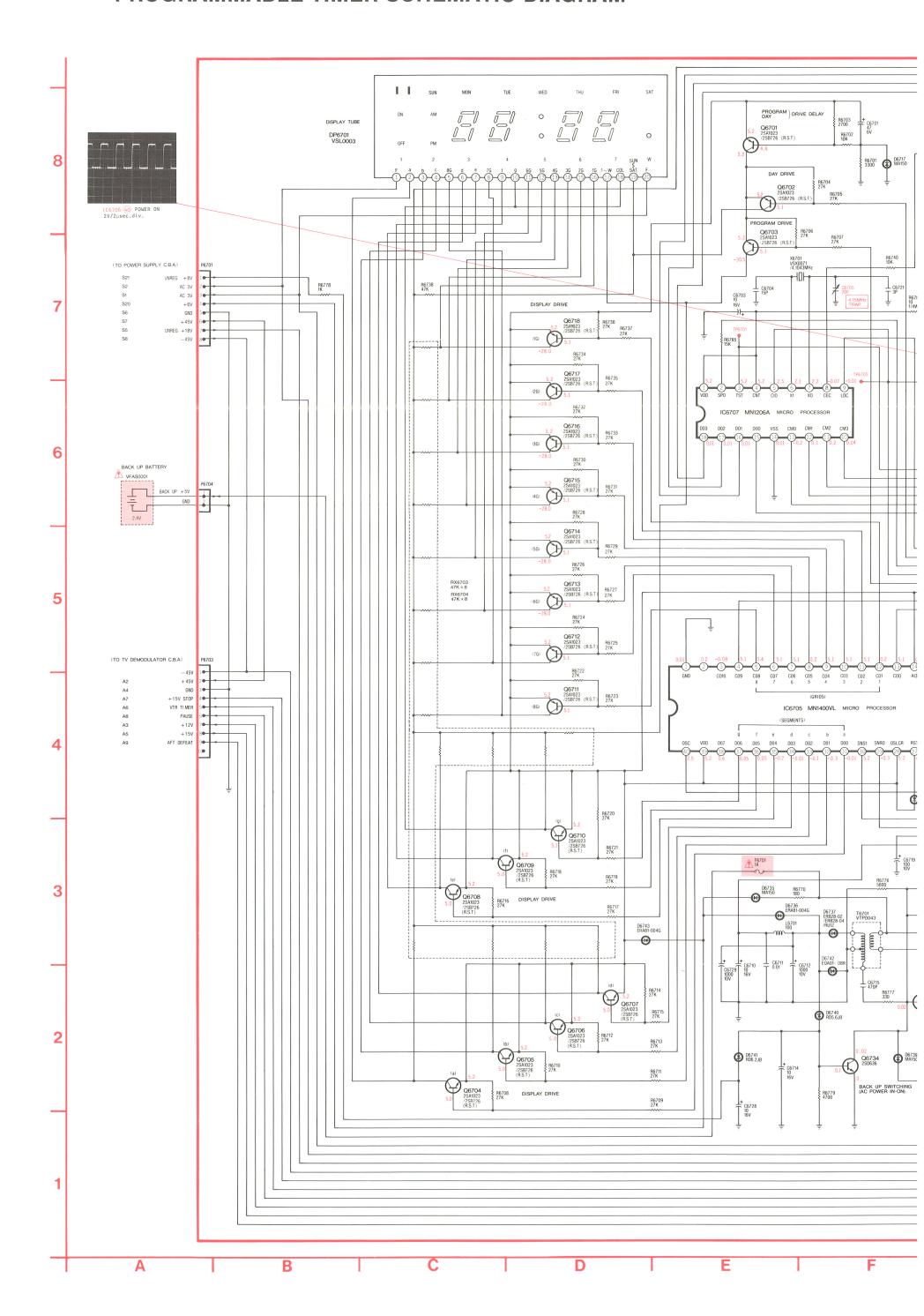
Power Supply

POWER SUPPLY C.B.A (VEPS0113A1)



8-10 PROGRAMMABLE TIMER SCHEMATIC DIAGRAM

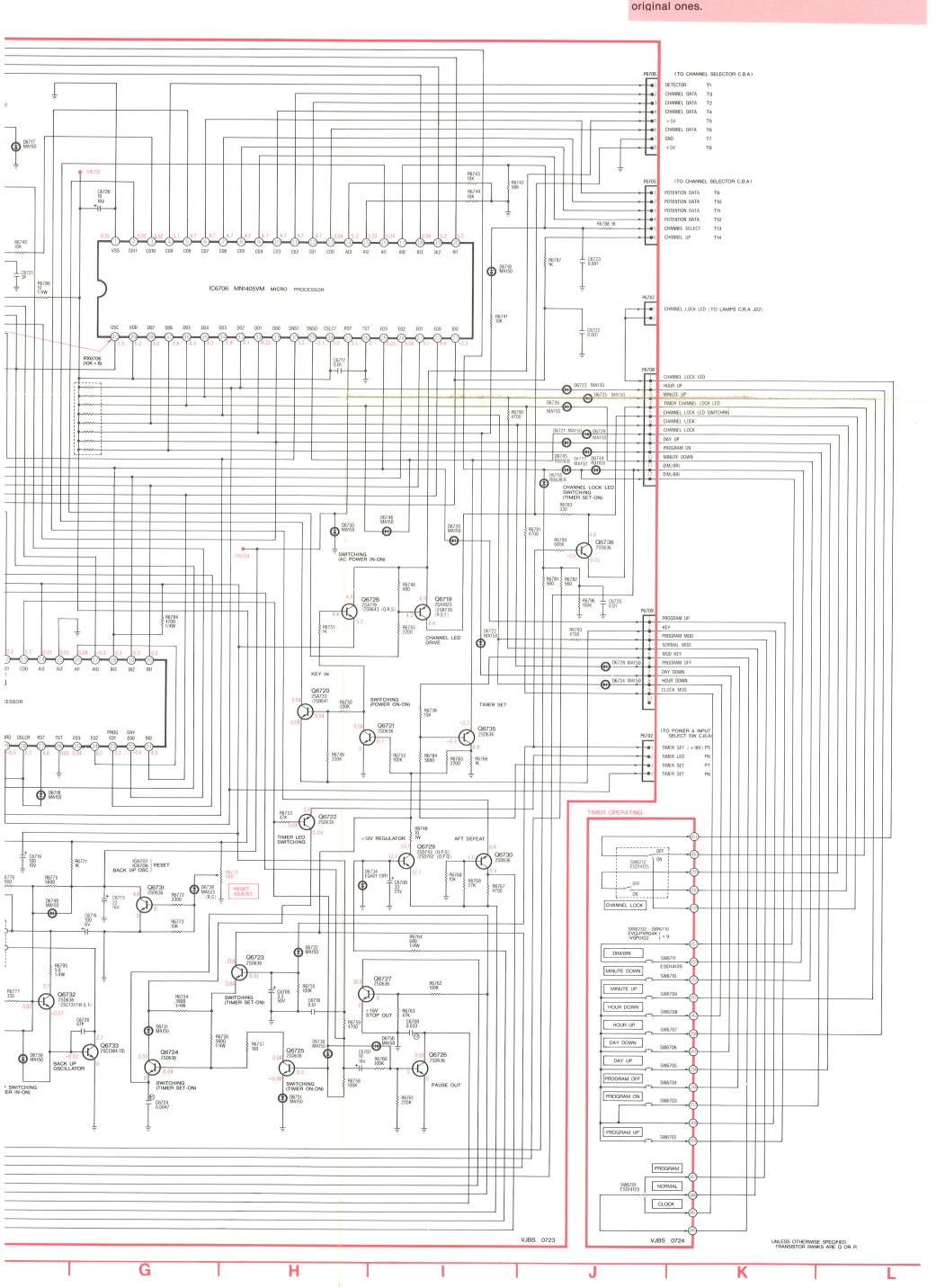
PROGRAMMABLE TIMER SCHEMATIC DIAGRAM



IMPORTANT SAFETY NOTICE Components identified by shade have special

characteristics important for safety.

When replacing any of these components, use only the



PROGRAMMABLE TIMER C.B.A (VEPS0723A1)

Tr. NO.	Ε	В	C
Q6701	5.2	4.6	5.2
Q6702	5.2	5.1	
Q6703	5.2	5.1	-30.5
Q6704	5.2	5.0	
Q6705	5.2	5.0	
Q6706	5.2	5.0	
Q6707	5.2	5.0	
Q6708	5.2	5.0	
Q6709	5.2	5.0	
Q6710	5.2	5.1	
Q6711	5.2	5.1	
Q6712	5.2	5.1	
Q6713	5.2	5.1	-28.0
Q6714	5.2	5.1	-28.0
Q6715	5.2	5.1	-28.0
Q6716	5.2	5.1	-28.0
Q6717	5.2	5.1	-28.0
Q6718	5.2	5.1	-28.0
Q6719	4.9	4.2	4.8
Q6720	0.04	0.04	0.04
Q6721	0	0.7	0.04
Q6722	0.3	0.04	0.04
Q6723	0.04	0.01	21.6
Q6724	0	0.04	0.07
Q6725	-0.06	0.1	0.04
Q6726	0	0	0.03
Q6727	0	0	16.3
Q6728	5.2	4.4	4.9
Q6729	12.1	12.7	20.7
Q6730	0.4	1.0	0.4
Q6731	0	0	4.4
Q6732	-0.07	0.02	2.7
Q6733	0	-0.07	2.7
Q6734	0	0.7	0.02
Q6735	-0.2	-0.1	6.8
Q6736	0.01	-0.3	4.8

	IC6705	IC6706
1	0.01	0.01
2	0.02	0.2
3	0.02	-0.08
4	0.1	5.1
5	4.7	0.4
6	4.7	5.1
7	4.7	5.1
8	4.7	0.2
9	4.7	5.1
10	47	5.1
11	4.7	5.1
12	4.7	0.2
13	0.04	5.1
14	5.2	0.01
15	0.01	0.01
16	0.04	0.04
17		-0.2
18	0.04	0.3
19	0.2	0.3
20	0.2	0.3
21	-0.3	4.9
22	4.6	-0.4
23	5.1	0.2
24	0.04	0.2
25	0.03	0.04
26	0	0.01
27	5.1	4.4
28	5.2	5.2
29	-0.1	-0.3
30	5.2	5.2
31		-0.01
32	4.23	-0.3
33	0.1	-0.1
34	3.8	-0.01
35	4.2	-0.2
36	4.3	0.05
37	3.8	0.05
38	5.2	0.6
39	5.2	5.2
40	2.5	2.5

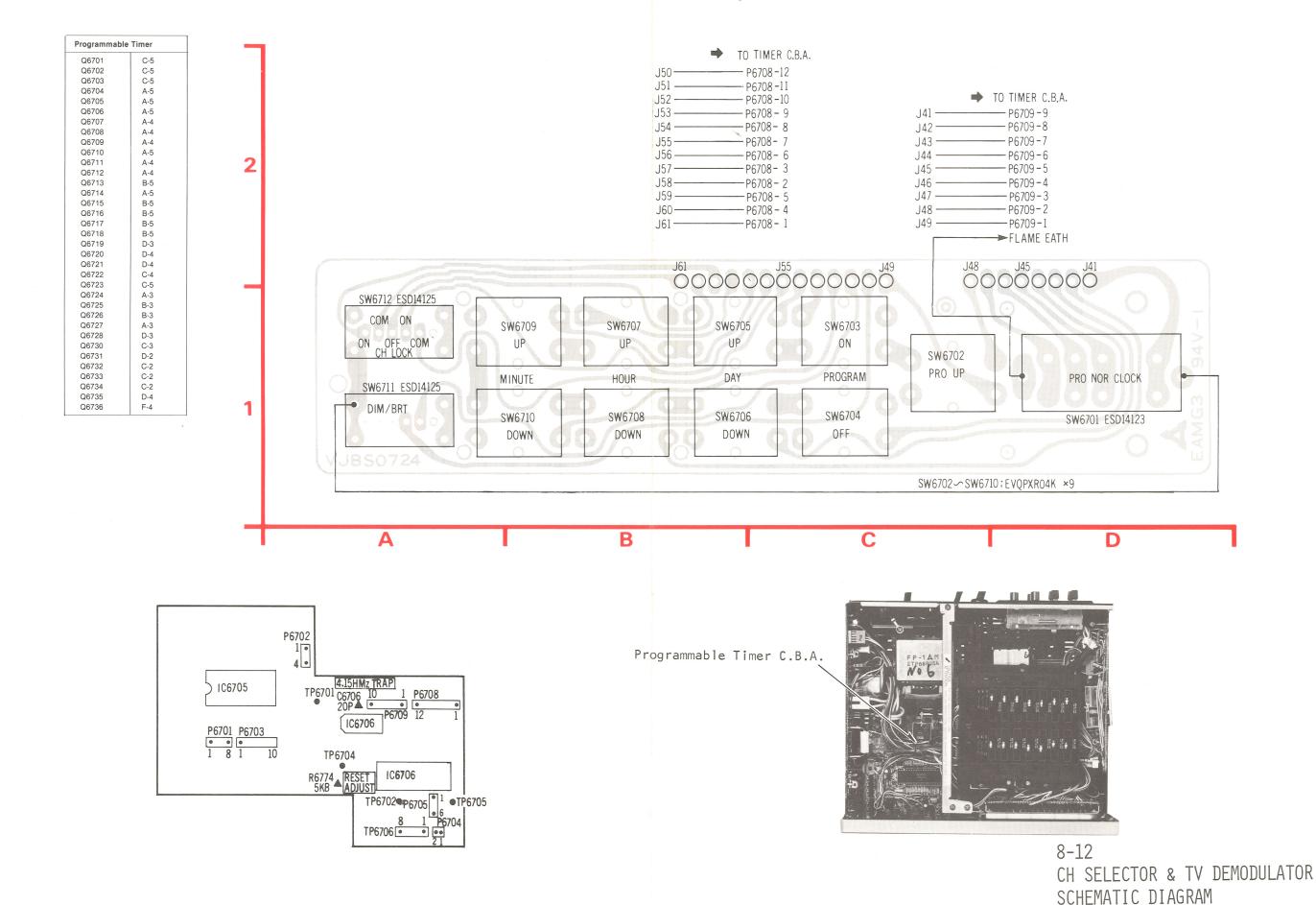
| IC6707 | 1 | 5.2 | 2 | 3 | 5.2 | 4 | 5.2 | 5 | 2.5 | 6 | 2.1 | 7 | 2.2 | 8 | -0.07 | 9 | -0.01 | 10 | 0.04 | 11 | 0.2 | 12 | 0.1 | 13 | -0.2 | 14 | 0.01 | 15 | 4.8 | 16 | 0.01 | 17 | 0.01 | 18 | 0.01

_	
5	DP6701 VSL0003 -28.0 -30.5 1 5 10 13 15 20 R6705 R6704 EXBP88473M 47K S1 Q6703 27K 5.2 G6706 P6708 RX6703 EXBP88473M 47K S1 Q6712 SAI023 G B J13 G B
	5.2
4	06708 (
	R6760 100K 003 40 5.2 5.2 3.8 4.3 35 3.8 0.1 4.23 30 5.2 5.1 0 25 5.1 4.6 21
3	2\$\tilde{
	33 250 1
2	D6745 RD20EB D6735 MAI50 D6739 RD5.6_JR D6740 RD5.6_JR D6740 RD5.6_JR D6739 MAI50 D6739 MAI50 D6739 MAI50 D6738 MA522 D6738 MA
	1 UNREG +8V
1	6
	A B C D E F

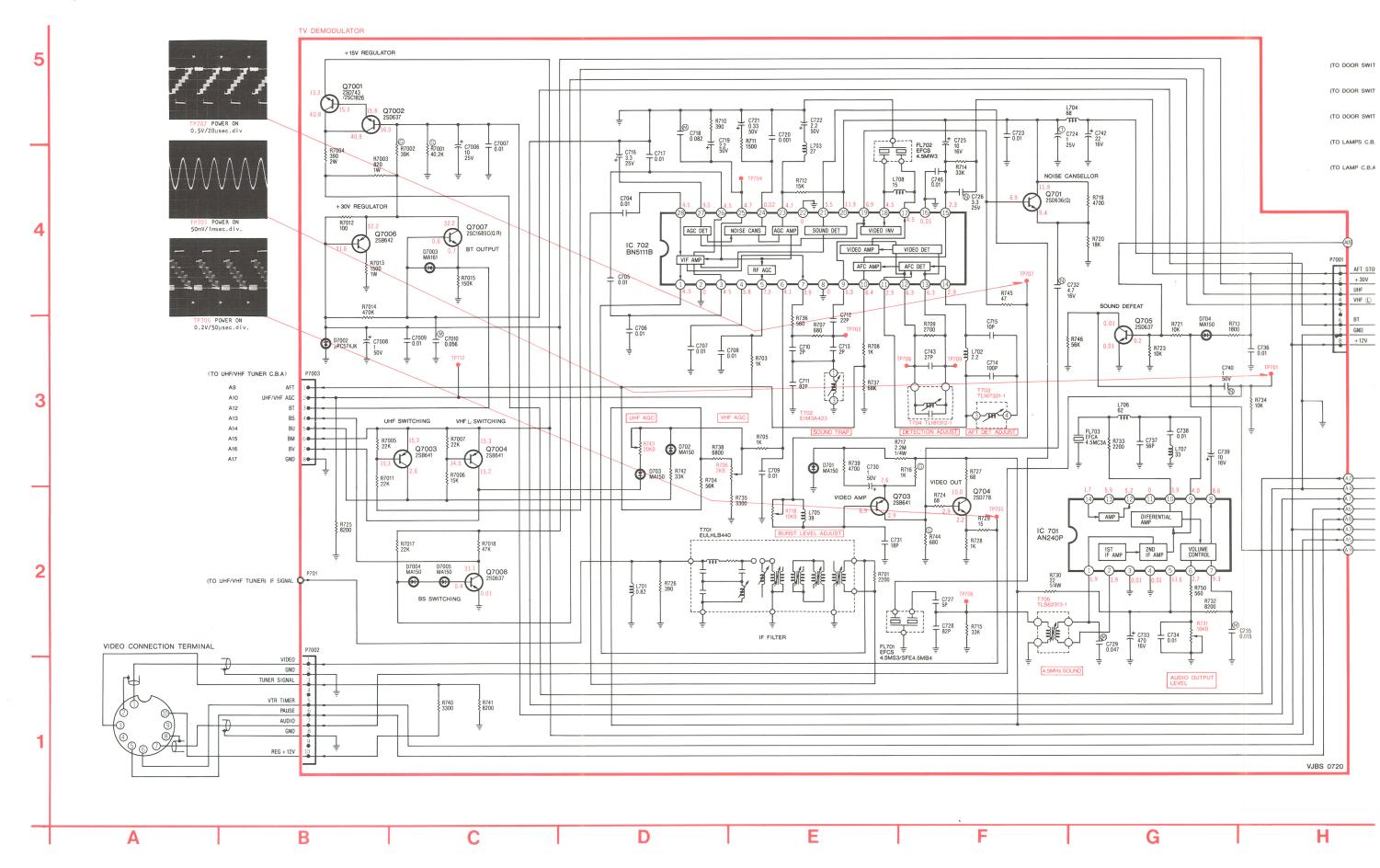
TIMER OPERATION C.B.A (VEP\$0724A1)

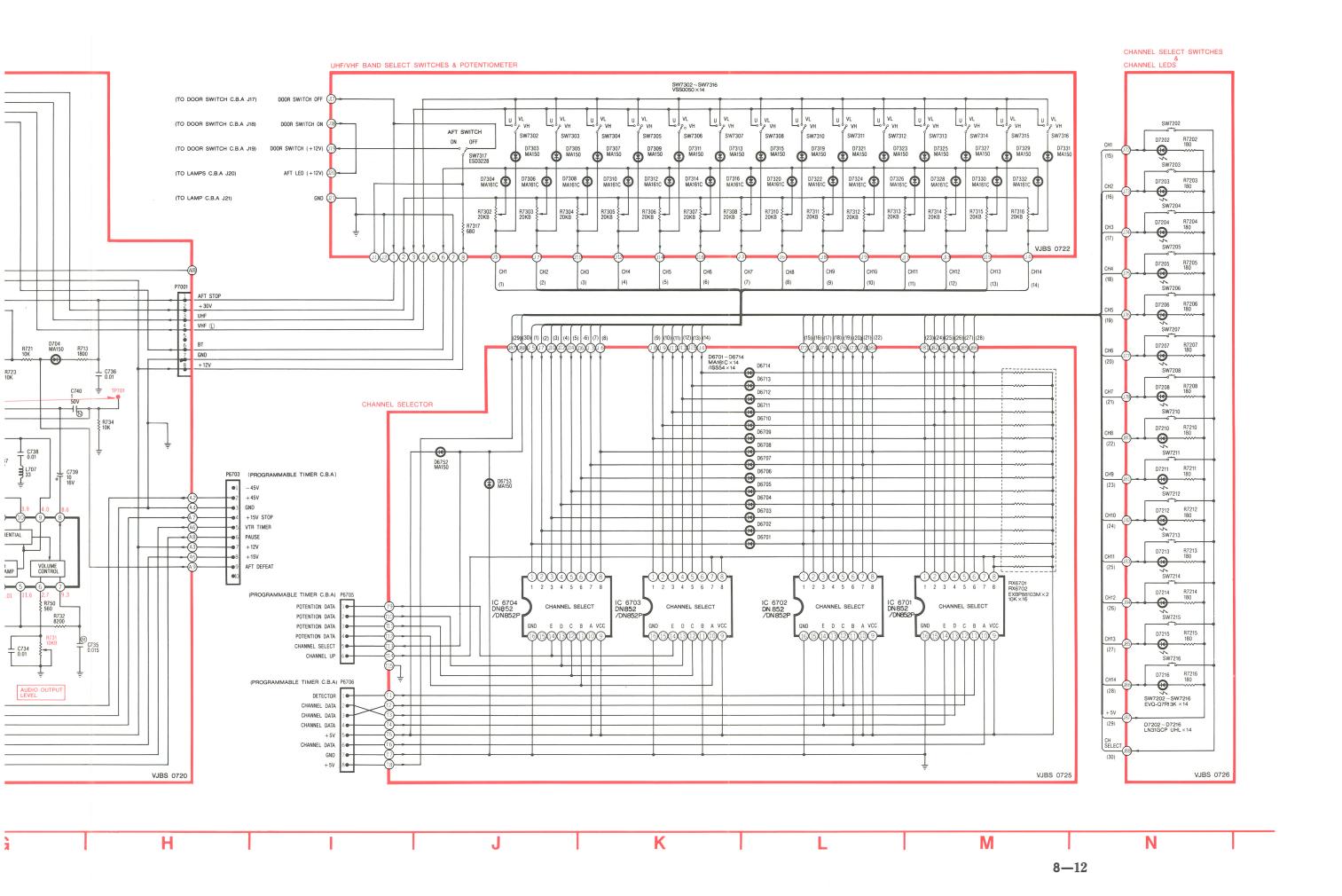
1 CH LOCK LED

RX6706 EXBP88103M

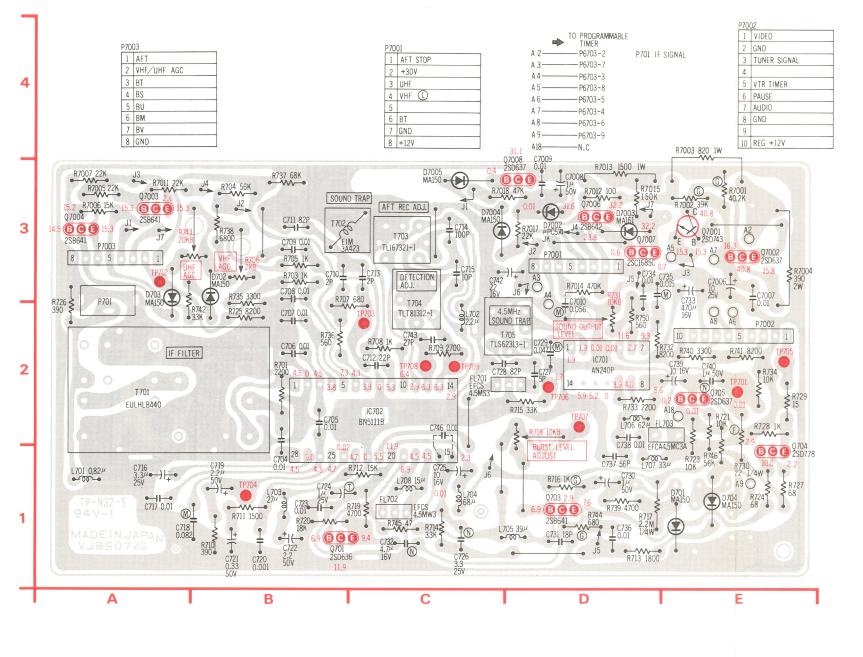


CH. SELECTOR & TV DEMODULATOR SCHEMATIC DIAGRAM

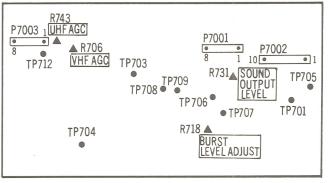




TV DEMODULATOR C.B.A (VEPS0720A1)



TV Demodulator C.B.A.



TV Demodu

Q705

Q7002

Q7003

Q7004

Q7006

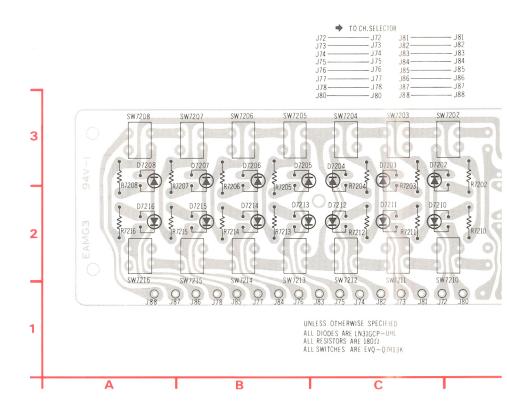
Q7007

Q7008

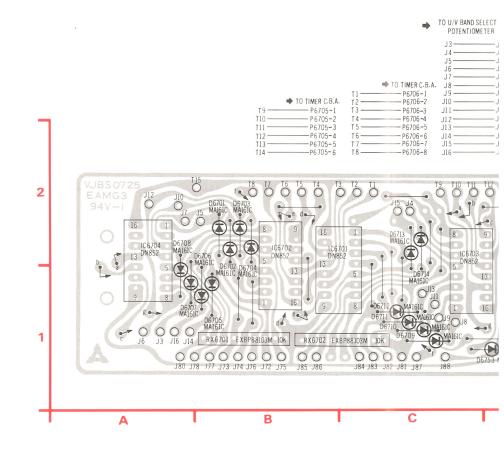
E-2

E-3 A-3

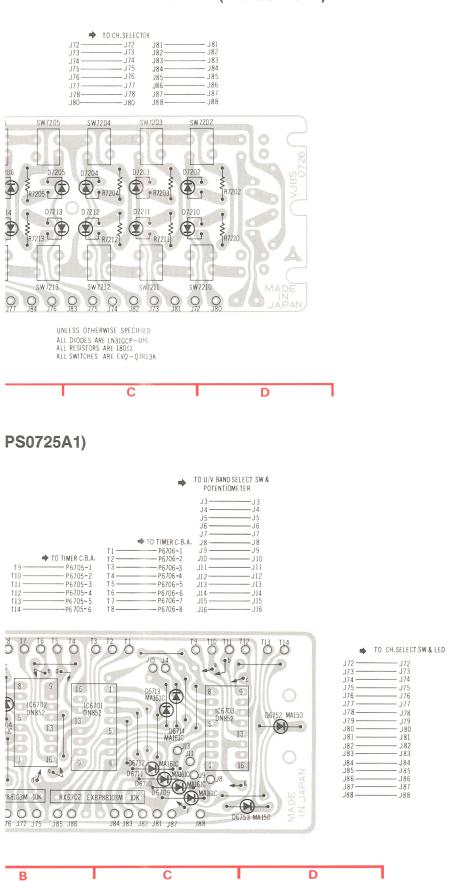
CH. SELECT SWITCHES & CH. SELECT LEDS C.B.A (VEP



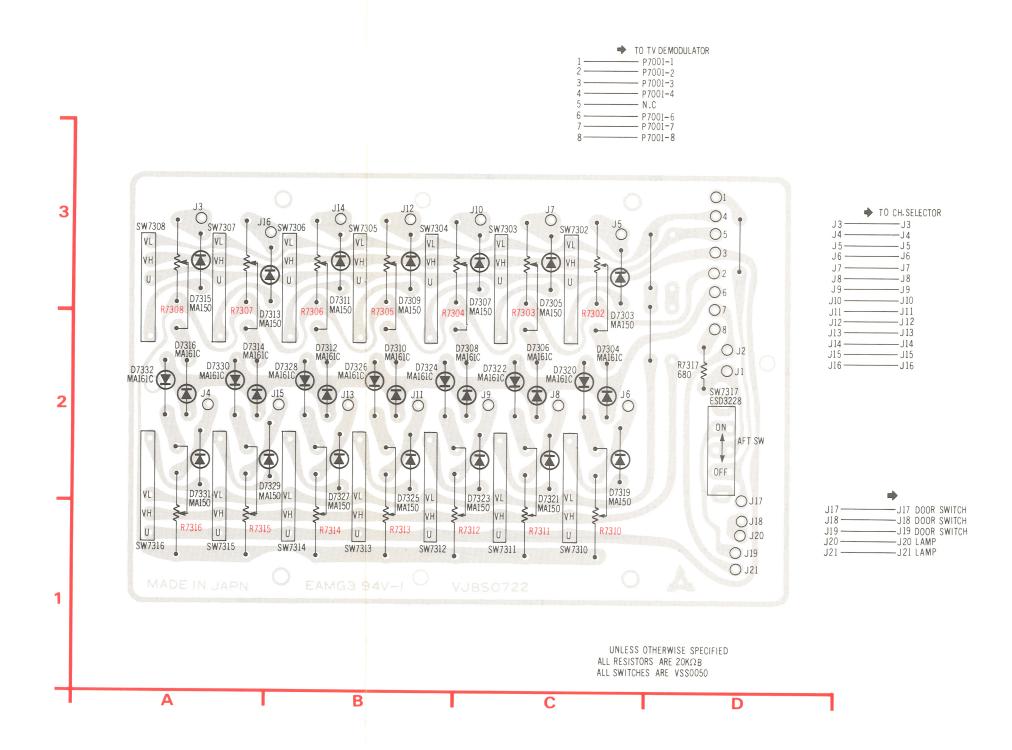
CH. SELECTOR C.B.A (VEPS0725A1)



& CH. SELECT LEDS C.B.A (VEPS0726A1)

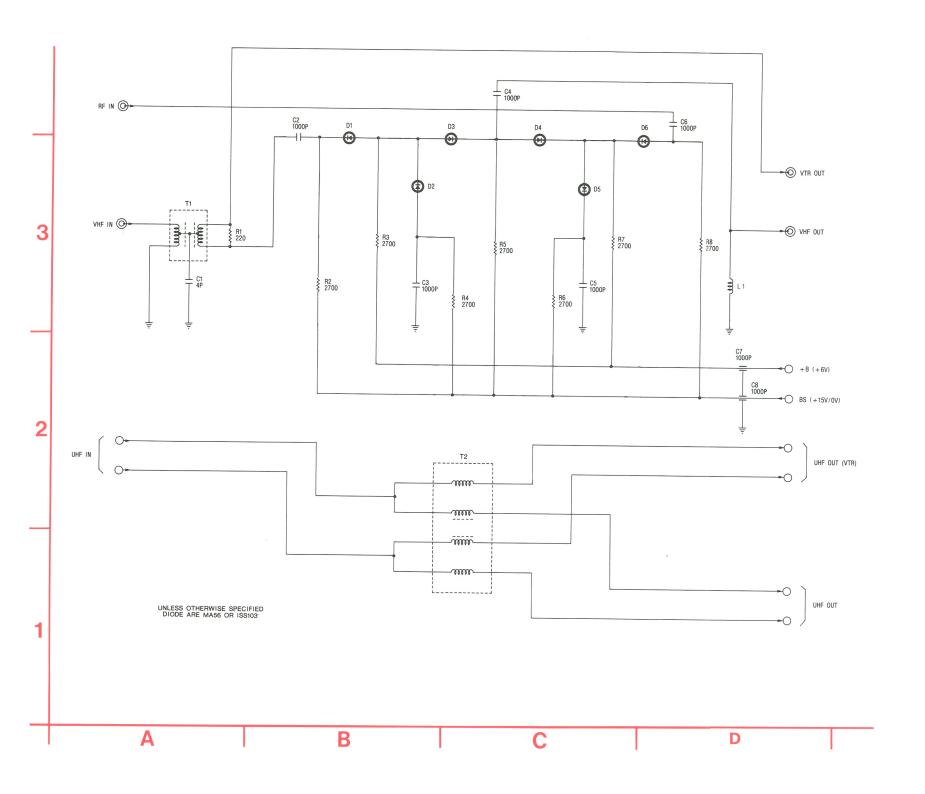


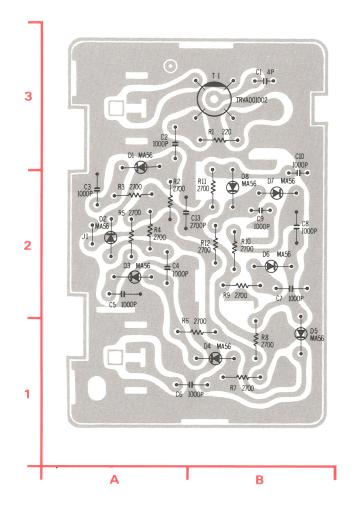
TV DEMODULATOR C.B.A. UHF/VHF BAND SELECT SWITCHES & POTENTIOMETER C.B.A (VEPS0722A1)

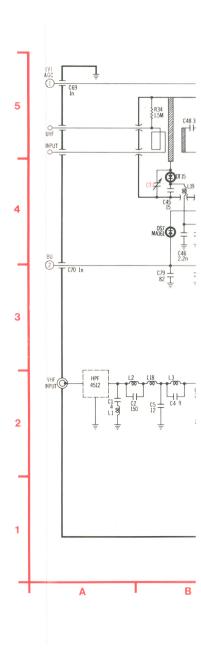


8-14 ANTENNA TERMINAL BOARD SCHEMATIC DIAGRAM

8-13

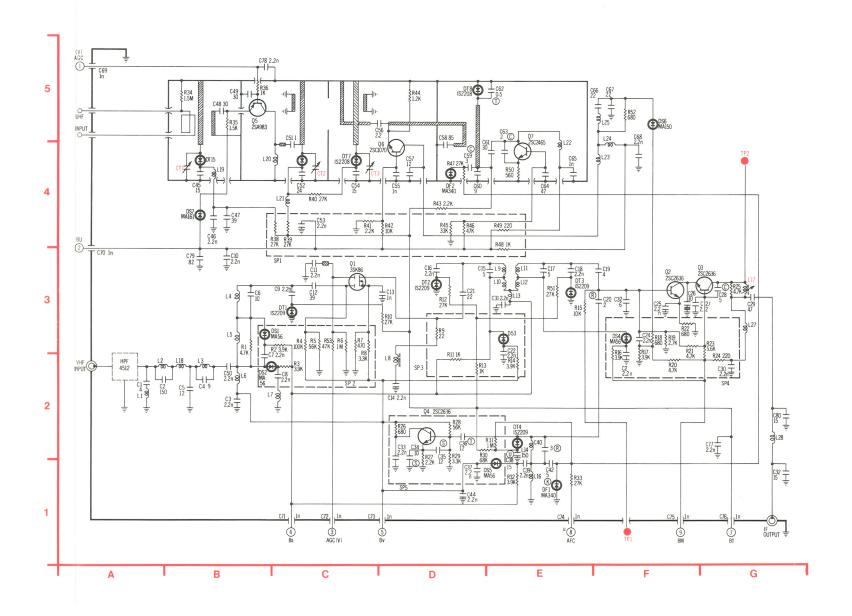


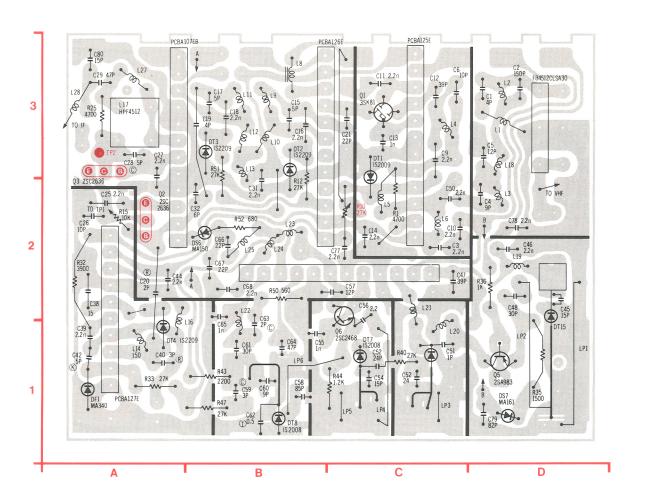




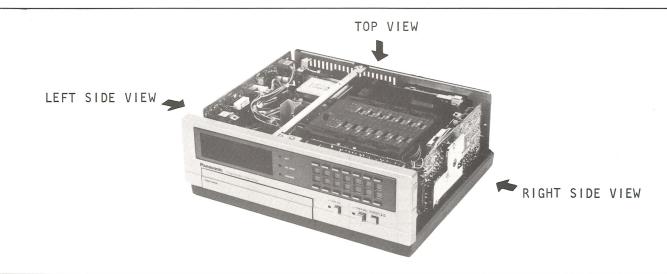
UHF/VHF TUNER SCHEMATIC DIAGRAM

UHF/VHF TUNER UNIT (TNV76704F2)

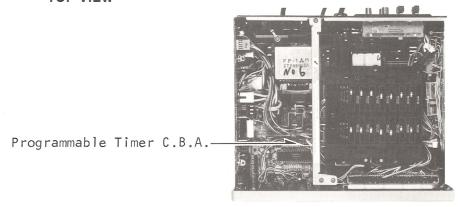




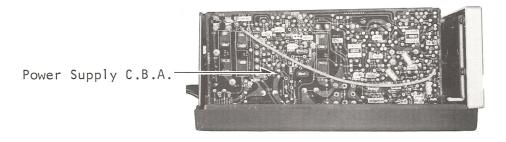
CIRCUIT BOARD LAYOUT



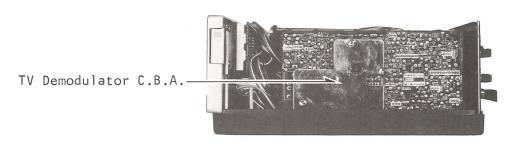
TOP VIEW



LEFT SIDE VIEW

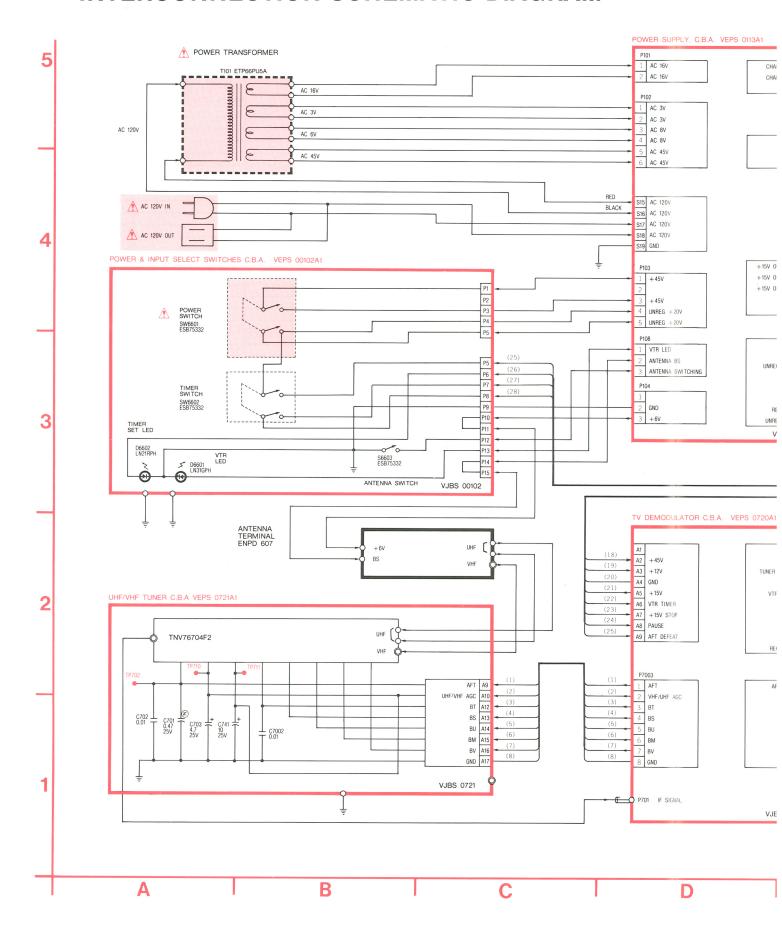


RIGHT SIDE VIEW



8—15

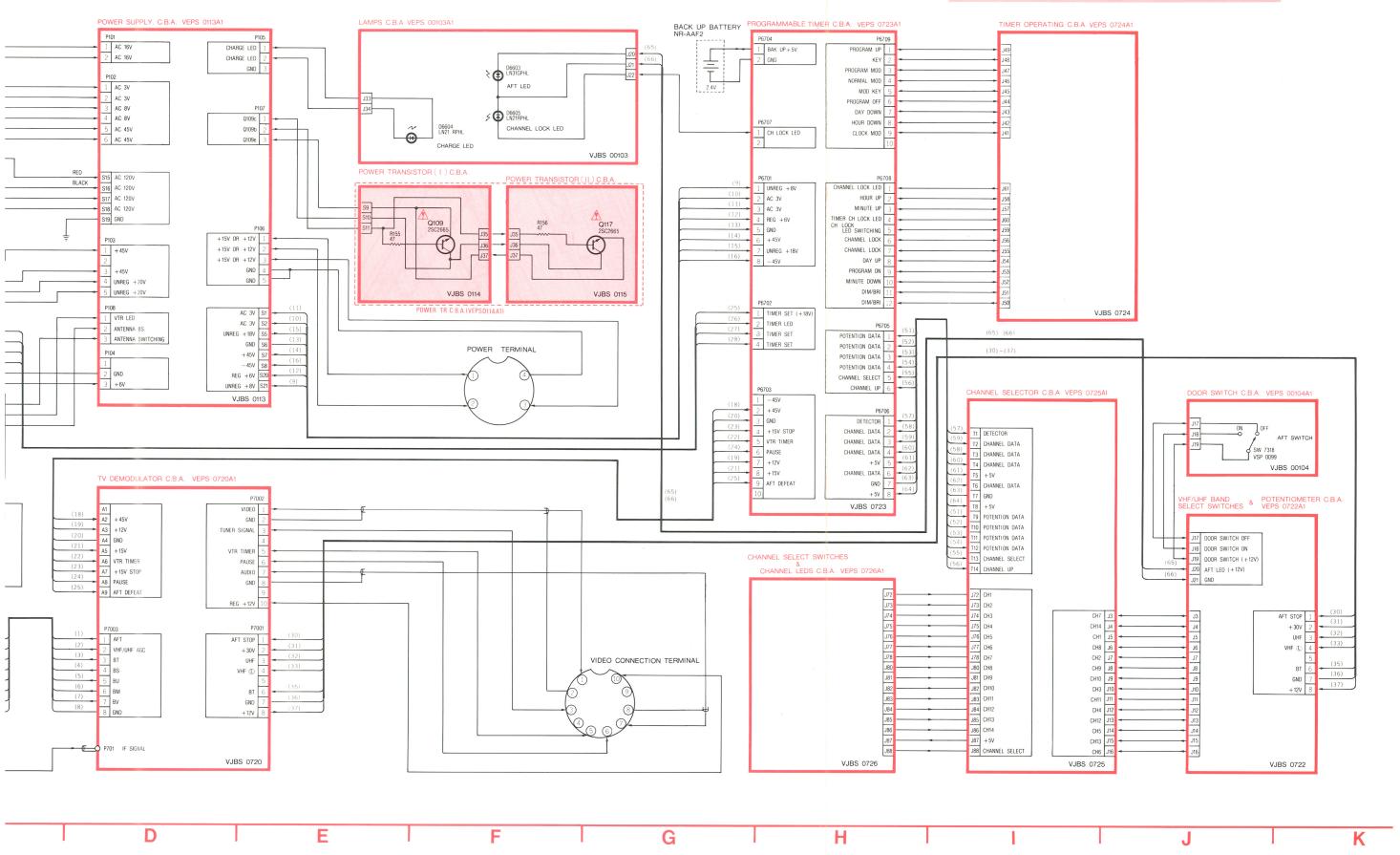
INTERCONNECTION SCHEMATIC DIAGRAM



Components identified by shade A have special characteristics important for safety.

When replacing any of these components, use only the original ones.

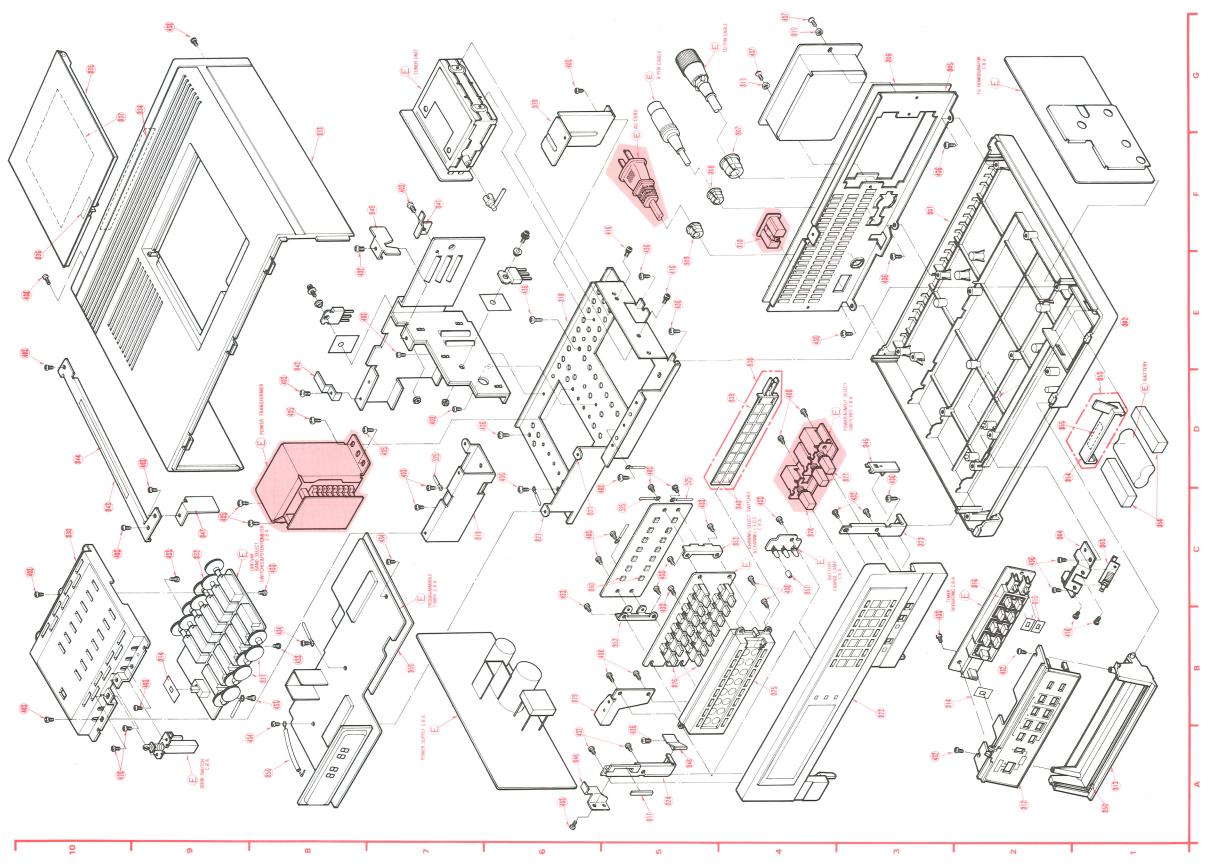
8-15
INTERCONNECTION
SCHEMATIC DIAGRAM



EXPLODED VIEW

Programmable Timer/Tuner Section

IMPORTANT SAFETY NOTICE
Components identified by shade have special characteristics important for safety. When replacing any of these components, use only the original ones.



Note: Refer fo Vol.5, page 5-10 of PV-4000 Service Manual for Packing Parts & Accessories Section.

MECHANICAL REPLACEMENT PARTS LIST Model No. PV-A35P Note: *Be sure to make your orders of replacement parts according to this list.

Note:	*Be sure to mak	se your orders of replacement parts acco	rding to	this list.	.]								
	Since all parts a	re available, availability colum indicates	s no mar	k.			856	1	P.C.B. CONNECTION ROD	1		VXMS0004	<u> </u>
							857	1	BATTERY CAUTION LABEL	1		VQLS0262	
Item		D	Pes/	Availa-		Remark	858	1	BATTERY SPACER	2		VMA3871	
No.	Drawing No.	Description	Set	bility	Part No.	Remark	859	1	TIMER P.C.B. BARRIER	1		VMZS0041	
801	1	BOTTOM CASE UNIT	1		VYPS0299		860	1	CHANNEL SELECT CUSHION	14	·	VMTS0019	
802	1	BOTTOM CASE CAUTION LABEL	1		VQL1044		11	·		† ' '		VIII 30019	
803	i	DOOR SWITCH	1	1	VSP0101	_	 			-	<u> </u>		
804	1	DOOR SWITCH ANGLE	1	<u> </u>	VMA4124		I ├──			ļ			
805	1	REAR ANGLE	1		VMA4131		! ├			 -			
	'	NEAN ANGLE	<u> </u>	 	VIIA4131		<u> </u>			ļ			
	_			ļ			 						
806	1	REAR PANEL	1		VGNS0131		·						
807	1	BUSHING (10P)	-1		VJF0027		11			ļ	1		
808	1	BUSHING (4P)	1	İ	VMP5027								
809	. 1	BUSHING (AC)	1		VJF0017								
810	1	AC OUTLET	1		VJ\$1085	70.00					† · · · ·		
							1			— —	t		
811	1	WASHER	2		VGQ0170		ļ — —			 			
812	1	TIMER PANEL UNIT	1	1	VYPS0356	-	 				ļ		
813	1	TIMER DOOR	1				! ├──			-	-		
				-	VKF0054	·	∤			ļ	ļ		
814	1	SWITCH COVER (A)	2		VMF0193		ł L						
815	1	SWITCH COVER (C)	2		VMFS0037		 						
							11						
816	1	TUNING SWITCH BRACKET	-1		VGT0163								
817	1	TIMER SPACER	2		VMF\$0012								
818	1	MAIN FRAME	1		VMA4129		1		 				
819	1	TUNING PANEL ANGLE (FRONT)	1		VMAS0510		1				 		
820	1	TUNING PANEL ANGLE (REAR)	T i		VMA4130		1├──			-	 		
	•	TOTAL TIMES THOSE (HEALT)	+	1	VINTIO	 	! ├──-			-	<u> </u>		
821	1	SPACER	-	+	Tuu7(0)0		 			-			
		-	2	 	TMK76212		∤			ļ	<u> </u>		
822	1	FRONT PANEL (I) UNIT	1	 	VYPS0358		<u> </u>				ļ		
823	1	FRONT ANGLE A(R)	1	ļ	VMA4126		!L						
824	1	FRONT ANGLE B(L)	1		VMAS0348][L				
825	1	CHANNEL SELECTOR BRACKET	1		VGF0020]						
										1			
826	1	CHANNEL KNOB	14		VGT\$0025		403	1	TAPPING SCREW, 3×8	18		XTV3+8F	
827	1	POWER SWITCH KNOB	2		VGT0154		408	1	TAPPING SCREW, 3×12	6		XTV3+12B	
828	1	ANT. SELECTOR KNOB	1		VGT0155		416	1	SCREW WITH WASHER, 3×6	4		XYN3+C6S	
829	1	CHANNEL SELECTOR ANGLE UNIT	1		VXASO131		420	1	SCREW WITH WASHER, 3x8	2	 	XYN3+F8S	
830	l i	TUNING V.R CASE UNIT	i	 -	+		432	1	TAPPING SCREW, 3×8	6		XTV3+8B	
-	 '	TOWNING V.N. CASE ONT!	- '-	+	VYPS0303		1		TATTING SCREW, 3X0	-		XIVSTOB	
			<u> </u>			-	1	,		ļ.,.	ļ		
831	1	TUNING V.R KNOB (A)	7		VGT0156		433	1	TAPPING SCREW, 3×8	11	1	XTV3+8BR	
832	1	TUNING V.R KNOB (B)	7		VGT0157		434	1	TAPPING SCREW, 3×8	3		XTV3+8FR	
833	1	TOP COVER UNIT	1		VYPS0305		435	1	TAPPING SCREW, 4×10	4		XTV4+10F	
834	1	TOP COVER CAUTION LABEL	1		VQL1043		436	1	TAPPING SCREW,4×10	15		XTN4+10B	
835	1	TUNING DOOR	1		VYPS0306		437	1	SCREW, 3×10	2		X\$\$3+10K	
							11				 		
836	1	TUNING DOOR DECORATION	ī	-	VGN1402		438	1	BIND SCREW, 3×8	2		XSB3+8FCWS	
837	1	TUNING CAUTION LABEL	1		VQL1040		<u> </u>		, , , , , , , , , , , , , , , , , , ,				
838	1	FILM HOLDER UNIT	1	1	VYQS0006		 						
839			1				╂						
		FILM HOLDER			VGF0014								
840	1	VHF CHANNEL FILM	1		VGQ0142		 						
							 						
841	1	ANGLE (B)	1		VMAS0347		1						
842	1	ANGLE (C)	1		VMAS0351								
843	1	CENTER ANGLE	1		VMA4134								
844	1	FUSE CAUTION LABEL	1		VQL1041		1				†		
845		SIDE DOOR	1		VKF0052		1			-	<u> </u>		
	† · · · · · · · · · · · · · · · · · · ·		<u> </u>		- 111 00) 2		11			-			-
846	,	ANGLE (A)	,	 	luacont (1├──				<u> </u>	ļ	
	1	ANGLE (A)	1	-	VMAS0346		∤ }						
847		ANGLE (FRONT)	1		VMAS0457						ļ		
848	1	DOOR LOCK SPRING	1		VMBS0059								
849	1	TUNING CASE HOLDER ANGLE	1		VMAS0444		<u> </u>						
850	1	PUSH MARK	1		VGNS0272								
851		T.,,,,,	10		T4B2065BJ		1				l		
וכט	1 1	HURE								l .	L		
		TUBE IC. P.B. ANGLE		† - ·			1	-					
852	1	IC. P.B. ANGLE	2		VMA4163								
852 853	1	IC. P.B. ANGLE BATTERY HOLDER UNIT	2		VMA4163 VYFS0025								
852	1	IC. P.B. ANGLE	2		VMA4163								

Item No.	Drawing No.	Description	Pcs/ Set	Availa- bility	Part No.	Remark
524	1	FASTENER	1		WZBV1	
525	1	CLAMPER	3		VJR3	
526	1	POLY SLIDER WASHER,40	2		XWXV4F9	
						
						
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				<u> </u>		
						
				 		+
				 		†

Note: Refer to Vol.5, page 5-14 (Mechanical Replacement Parts List) of PV-4000Service Manual for Packing Parts & Accessories.

8-16

	HOAL REF	LACEMENT PART	19 LIST	Ref. No.	Part No.	Part Name & Description	Set	Remarks
del No. PV	V-A35P			D7003	MA161	<u> </u>	Set	
ote:				D7004,7005	MA150		2	
Be sure to n	nake your orders of rep NT SAFETY NOTICE	acement parts according to this list.		107004,7005	MAISU		2	
Components	s identified by shade hav	e special characteristics important for sa	fety. When replacing any of these com-					
Unless other	s only the original ones rwise specified;			\ <u> </u>		<u>.</u>		
All resistors	are in OHMS (Ω), 1/8 w	r, ±5% carbon, K=1,000Ω, M=1,000 KΩ .DS (μ F), ±10% P= $\mu\mu$ F.	1.					
All coils are	in MICROHENRIES	(μH) , m=10 ³ μ .		11			-	
C.B.A: Circuit	uit Board Assembly. Board.				-	Resistors	H	
	1		Pes	R701	ERDIOTJ222	2.2K	1	
Ref. No.	Part No.	Part Name & Description	Set Remarks	R703	ERDIOTJ102	16	i	
	VEPS0720A1	TV DEMODULATOR C.B.A.	1	R704	ERDIOTJ563	56K	i	
i	 _ ` 		<u> </u>	R705	ERDIOTJ102	1K	h , †	
	VEPSO721A1	TUNNER CONNECTION C.B.A.	1	R706	EVNK6AAOOB23	Variable 2K	1	
				R707	ERDIOTJ102	1K	1	
	VEPSO113A1	POWER SUPPLY C.B.A.	1	R708	ERDIOTJ102	1K	1	
				R709	ERD10TJ272	2.7K	1	
	VEPSO726A1	CHANNEL SELECT SWITCHES		R710	ERDIOTJ391	390	1	
		ε CHANNEL L.E.D.S C.B.A.	1	R711	ERD10TJ52	1.5K	1	
				R712	ERD10TJ153	15K	1	
	VEPS00102A1	POWER & INPUT SELECT		R713	ERD10TJ182	1.8K	1	
		SWITCHES C.B.A.	1	R714,715	ERD10TJ333	33K	2	
				R716	ERD10TG1001	1 K	1	
	VEPSO723A1	PROGRAMMABLE TIMER		R717	ERD25TJ225	1/4w 2.2M	1	
		2 WEEK/8 PRO C.B.A.	1	R718	EVNK6AA00B14	Variable 10K	1	
				R719	ERDIOTJ472	4.7K	1	
	VEPS0724A1	TIMER OEPRATING C.B.A.	1	R720	ERD10TJ183	18K	1	
				R721	ERDIOTJ103	10K	1	
	VEPS0725A1	CHANNEL SELECTOR C.B.A.	1	R723	ERD10TJ103	10K	. 1	
				R724	ERD10TJ680	68	1	
	VEPS0114A1	POWER TR C.B.A.	1	R725	ERD10TJ822	8.2K	1_	
		<u> </u>		R726	ERD10TJ391	390	11	
	VEPS00103A1	BATTERY CHARGE LAMPS		R727	ERD10TJ680	68	1 :	
		C.B.A.	1	-				
	VEPS00104A1	DOOR SWITCH C.B.A.	1		+	-		
				R728	ERDIOTJ102 ERDIOTJ150	1 K		
	VEPS0722A1	UHF/VHF BAND SELECT		R730	ERD25FJ220	15 1/4W 22	1	
		SWITCH & POTENTIOMETER		R731	EVNK6AAOOB14	Variable 10K	1	
	-	C.B.A.	1	R732	ERDIOTJ822	8.2K	,	
		T.V DEMODULATOR C.B.A/		R733	ERD10TJ222	2.2K	+	
		CHANNEL SELECTOR SWITCH		R734	ERDIOTJ103	10К		
		SECTION		R735	ERDIOTJ332	3.3K	1	
		-		R736	ERDIOTJ561	560	-	
		Integrated Circuits		R737	ERDIOTJ683	68K		
n —	AN240P	-	1	R738	ERD10TJ682	6.8K	i	
)2	BN5111B		1	R739	ERD10TJ472	4.7K		
	+			R740	ERD10TJ332	3.3К		
		Transistors		R741	ERD10TJ822	8.2к		
	2SD636(Q)		1	R742	ERDIOTJ333	33K		
3	2SB641		1	R743	EVNK6AA00B24	Variable 20K	1	
	250778		1	R744	ERDIOTG6800	6.8K	1	
,	2SD637		1	R745	ERDIOTJ470	47	1	
	⊢ _ ,			R746	ERD10TJ563	56К	1	
01	2SD743		1	R750	ERD10TJ561	560		
	or 2SC1826						_	
)2	2SD637		1	R7001	ERD10TG4022	40.2K	1 +	
3,7004	2SB641		2	R7002	ERDIOTG3902	39К	1	
6	2SB642		1	R7003	ERDIANJ821H	Metal Oxide Film IW 820	1 ,	
7	2SC1685C		1	R7004	ERG2ANJ391H	Metal Oxide Film 2W 390	1	
	or 2SD637C			R7005	ERD10TJ223	22K	1	
8	2SD637		1	R7006	ERD10TJ153	15K	1	
I				R7007	ERD10TJ223	22K	1	
		:		R7011	ERD10TJ223	22K	1	
				R7012	ERDIOTJIOI	100	1	
70.		Diodes		R7013	ERGIANJ152H	Metal Oxide Film IW 1.5K	1	
-704	MA150		4	R7014	ERD10TJ474	470K	1	
		:						
02	PC574JK	Zener	1	II I				

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks	Ref. No.	Part No.	Part Name & Description	Po / Se	
R7015	ERDIOTJ154	150K	l'				Filters	- 5-6	-
R7017	ERDIOTJ223	22K	1		FL701	EFCS4R5MS3	Ceramic	1	
R7018	ERD10TJ473	47K	1			or SFE45MB4		₩.	
					FL702	EFCS4R5MW3	Ceramic	1	
					FL703	EFCA4R5MC3A	Ceramic Discriminator	+ ;	-
							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+	
									
								-!	
		Capacitors					Transformers		
C704-709	ECKW1H103PF	Ceramic 50V 0.01	6		T701	EULHLB440	HL Filter	l	
C710	ECCW1H02OCC	Ceramic 50V 2P	1		T702	E1M3A423	I.F.T.	+	
C711	ECCW1H820JR	Ceramic 50V 82P	1		T703	TL167321		Τi	
C712	ECCW1H22OJC	Ceramic 50V 22P	_1_		T704	TL181312	I.F.T.	1	
C713	ECCW1H02OCC	Ceramic 50V 2P	1		T705	TLS62313	S.I.F.	1	
C714	ECCW1H101KP	Ceramic 50V 100P	_1_						
0715	ECCW1H100DC	Ceramic 50V 10P	1					-	
716	ECEATES3R3	Electrolytic 25V 3.3	1					T	
C717	ECKW1H103PF	Ceramic 50V 0.01	1				Miscellaneous		ļ
718	ECQM1H823KZ	Polyester Film 50V 0.082	1_		P7001	V\$P\$0097	8P Connector	1	
719	ECEA1HS2R2	Electrolytic 50V 2.2	. 1		P7002	VSPS0091	10P Connector	 	
720	ECKW1H102KB	Ceramic 50V 0.001	1		P7003	VSPS0097	8P Connector	i-	
721	ECEA50ZR33	Electrolytic 50V 0.33	_1_				T	T	†
722	ECEATHS2R2	Electrolytic 50V 22	1						
723	ECKW1H103PF	Ceramic 50V 0.01	1					1	· · · · · · · · · · · · · · · · · · ·
724	ECSZ25EF1N	Tantalum 25V 1	1					ī	t
725	ECEA1CS100	Electrolytic 16V 10	1				+	+	I
726	ECEA25N3R3	Electrolytic 25V 3.3	1						
727	ECCW1H050CC	Ceramic 50V 5P	1 ,						F
728	ECCW1H820JR	Ceramic 50V 82P	1					+	
729	ECQM1H473KZ	Polyester Film 50V 0.047	1					ī	
730	ECEA1HS010	Electrolytic 50V I	1						
731	ECCM1H180JC	Ceramic 50V 18P	1					1 —	
					-l				
	+	<u></u>	-					† –	
732	ECEA16N4R7	51					+ -	Τ΄,	
733	ECEAICS471	Electrolytic 16V 4.7	1			_1	TUNNER CONNECTION C.B.A.		
734	ECKWIH103PF	Electrolytic 16V 470 Ceramic 50V 0.01	1		1		i		
735	ECQM1H153KZ		1		<u> </u>			i	
736	ECKWIH103PF		1				Capacitors		
737	ECCW1H560JC		1		C701	ECEA50ZR47	Electrolytic 50V 0.47	1	
738	ECKWIH103PF	+	1 '		C702	ECKW1H103PF	Ceramic 50V 0.01	1	
739	ECEA1CS100		1 +		C703	ECEA1ES4R7	Electrolytic 25V 4.7	1	
740	ECEA5ON01	t	1		C741	ECEA1ES100	Electrolytic 25V 10	1	
742	ECEA1CS220		1		C7002	ECKW1H103PF	Ceramic 50V 0.01	1	
743	ECCW1H270JC		+		<u> </u>	<u> </u>			
746	ECKW1H103PF	L	-		╢— — ;	+			
	or TCKWIH103PF		1	- · ·	∦ ⊥	<u> </u>			
	OI TERMINIOSI!				 	 	+		
7006	ECEA1FS100	Electrolytic 25V 10	1		 	<u> </u>			
007	ECKWIHIO3PF		1		 	-1	+		
008	ECEA1HS010		-		{ }				
009	ECKW1H103PF	·	1			·			
010	ECQM1H563KZ	Polyester Film 50V 0.056			╂	<u> </u>		I.	
	Legitijojaz	Polyester Film 500 0.056	-		∤				·
	 	<u> </u>			∦ ——				
	- L	<u> </u>	+		<u> </u>	·			
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	 	Coils			 	J			
01	VLQR82KB		,+		\vdash				
02	VLQ80W022K	0.82	-						
03	VLQ80W022K VLQ80W270K		1 +		l				
04			1						
05	VLQ80W680K	68			L				
06	VLQ80W390K	39	-			ļ		- $+$	
17	VL080W620K	62	-			+			
08	VLQ330JB		1						
·	VLQ80W150K	15	1		L		+	— <u>:</u>	
	 		i					-+	
	1		1 -			·		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		POWER SUPPLY C.B.A.		**************************************	R122	EVNK6AA00B22	Variable 200	1	
					R123	ERDIOTJ511	510	1	-
					R124	ERD10TJ223	22K	1	
		Integrated Circuits			R125	ERD10TJ392	3.9K	1	
10101	uPC141C		1		R126	ERD10TJ223	22K	1	
10102	μPC151C		1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	R127	ERDIOTJ103	10K	1	
			-		R128	ERD10TJ822 ERD10TJ224	8.2K	1	
					R130	ERD10TJ821	220K 820	1	
	-	Transistors			R131	ERD10TJ223	22K	-	
Q102	2\$B761	110113132013	1		R132	ERDIOTJ103	10K	1	-
Q103	2SD638		1		R133	ERD10TJ272	2.7K	1	
Q104,105	2SD636(Q,R)	·	2	amazona a ur robis rambin	R134	ERD10TJ332	3.3K	1	
Q106	2SB641(Q,R)		1		R138	ERD10TJ102	1K	1	
Q107	2\$A699A(P,Q,R)		1		R140,141	ERD10TJ103	10K	2	1
Q108	2\$B641(Q,R)	-	1	WITT ALMERT AND COMPARED AND AND AND AND AND AND AND AND AND AN	R142,143	ERD10TJ124	120K	2	L
Q110	2SD636(Q,R)		1		R144,145	ERD10TJ823	82K	2	
0111	2\$B641(Q,R)		1		R146,147	ERDIOTJ562	5.6K	2	
Q112	2SD636(Q,R)		1		R148	ERD10TJ223	22K	1	
Q113-116	2SD637		4		R149	ERD10TJ103	10K	1	
					R151	ERD10TJ152	1.5K	1	
					R152	ERDIOTJ222 ERDIOTJ333	2.2K	1	
		Diodes	<u> </u>	 	R153	ERDIOTJ332	33K 3.3K	1	
D101,102	RM1ZM or	SI	2		R154	ERDIOTJ683	68K	1	
	ERB12-02	1	_		R157,158	ERDIOTJ103	10K	2	·
D103	M1-152R	si	1		R159	ERD10TJ331	330	1	
0104	MI-152	Si	1		R160	ERC12ZGK275D	Solid 1/2W 2.7M	Y	
D106	RD3,9EB	Zener	1						
0107	RB-602	Commutator	1						
D108,109	MA150	Si	1	Manager - Scott - Scott					
D111	MA150		1			.			
D112	ERC81-004		1		l — i	-			
D114	MA150		1				 		
D115	MA161		1		<u> </u>		Capacitors		
D117-119	MA150		3	1000	C101,102	ECKW2H103PE8	Ceramic 500V 0.01	2	
D120	MA162	-	1		C103	ECEAIJS471	Electrolytic 63V 470		
D121	MA150		ı		C104	ECEA1J\$331	Electrolytic 63V 330		·
D123	MA150		1		C105-108	ECKW1H103PF	Ceramic 50V 0.01	4	
D124	MA150	Si	1		C110	ECEAICS102	Electrolytic 15V 1000	i	
					C111	ECEA1CS470	Electrolytic 16V 47	1	
					C112	ECKW1H103PF	Ceramic 50V 0.01	1	
					C113	ECEA1CS470	Electrolytic 16V 47		
	-	D 1			C114-117	ECKW1H103PF	Ceramic 50V 0.01	4	
R102	ERQ12HJ2R2	Resistors Solid 1/2W 2.2	,		C118 C119	ECCW1HIO1KC	Electrolytic 50V 4700	1	
R103	ERD10TJ102	1/2W 2.2		10.4	C120	ECOM1H472KZ	Ceramic 50V 100P	1	
R104	EVNK6AA00B13	Variable 1K			C121	ECEATHS010	Polyester Film 50V 0.0047 Electrolytic 50V 1		
R105	ERDIOTJ561	560	· -		6122	ECEATHS010	Electrolytic 50V 10	1	
R106	ERDIOTJ331	330	1		C123	ECEA1HS3R3	Electrolytic 50V 3.3		
R107	ERD10TJ121	120			C124	ECKW1H331KB	Ceramic 50V 330P		
R108	ERD10TJ102	1K			C125	ECEATES3R3	Electrolytic 25V 3.3		,
R109	ERDIOTJ121	120			C126	ECEA1ES100	Electrolytic 25V 10		/
R110	ERD10TJ331	330	1		C127	ECKW1H103PF	Ceramic 50V 0.01		
R111	ERD10TJ223	22K	1		C128	ECEA1CS470	Electrolytic 15V 47	1	
R112			1		C129	ECEAIJS010		1	
	ERD10TJ392	3.9K				F0F41110010	Floorest FOV 1	2	
R113	ERF3AKR56	3W 0.56	ì		C130,131	ECEA1HS010			
R113 R114	ERF3AKR56 ERD10TJ152	3W 0.56	1		C133	ECEA1HS010	Electrolytic 50V 1	1	
R113 R114 R115	ERF3AKR56 ERD10TJ152 ERD10TJ683	3W 0.56 1.5K 68K	1		C133 C134	ECEATHS010 ECEATE101	Electrolytic 50V 1 Electrolytic 25V 100]]	
R113 R114 R115 R116	ERF3AKR56 ERD10TJ152 ERD10TJ683 ERD10TJ123	3W 0.56 1.5K 68K 12K	1 1 1		C133 C134 C135,136	ECEA1HS010 ECEA1E101 ECEA1HS010	Electrolytic 50V 1 Electrolytic 25V 100 Electrolytic 50V 1	1 2	
R113 R114 R115 R116	ERF3AKR56 ERD10TJ152 ERD10TJ683 ERD10TJ123 ERD10TJ102	3W 0.56 1.5K 68K 12K	1 1 1		C133 C134	ECEA1HS010 ECEA1E101 ECEA1HS010 ECEA50ZR33	Electrolytic 50V 1 Electrolytic 25V 100]]	
R113 R114 R115 R116	ERF3AKR56 ERD10TJ152 ERD10TJ683 ERD10TJ123 ERD10TJ102 ERD10TJ182	3W 0.56 1.5K 68K 12K 1K 1.8K	1 1 1 1		C133 C134 C135,136	ECEA1HS010 ECEA1E101 ECEA1HS010	Electrolytic 50V 1 Electrolytic 25V 100 Electrolytic 50V 1	1 2	
R113 R114 R115 R116 R117	ERF3AKR56 ERD10TJ152 ERD10TJ683 ERD10TJ123 ERD10TJ102 ERD10TJ182 ERD10TJ221	3W 0.56 1.5K 68K 12K 1K 1.8K	1 1 1 1 1		C133 C134 C135,136	ECEA1HS010 ECEA1E101 ECEA1HS010 ECEA50ZR33	Electrolytic 50V 1 Electrolytic 25V 100 Electrolytic 50V 1	1 2	
R113 R114 R115 R116 R117 R118	ERF3AKR56 ERD10TJ152 ERD10TJ683 ERD10TJ123 ERD10TJ102 ERD10TJ182	3W 0.56 1.5K 68K 12K 1K 1.8K 220 3.3K	1 1 1 1 1		C133 C134 C135,136	ECEA1HS010 ECEA1E101 ECEA1HS010 ECEA50ZR33	Electrolytic 50V 1 Electrolytic 25V 100 Electrolytic 50V 1	1 2	
R113 R114 R115 R116 R117 R118 R119	ERF3AKR56 ERD10TJ152 ERD10TJ683 ERD10TJ123 ERD10TJ102 ERD10TJ182 ERD10TJ221 ERD10TJ332	3W 0.56 1.5K 68K 12K 1K 1.8K	1 1 1 1 1		C133 C134 C135,136	ECEA1HS010 ECEA1E101 ECEA1HS010 ECEA50ZR33	Electrolytic 50V 1 Electrolytic 25V 100 Electrolytic 50V 1	1 2	
R113 R114 R115 R116 R117 R118 R119	ERF3AKR56 ERD10TJ152 ERD10TJ683 ERD10TJ123 ERD10TJ102 ERD10TJ182 ERD10TJ221 ERD10TJ332	3W 0.56 1.5K 68K 12K 1K 1.8K 220 3.3K	1 1 1 1 1		C133 C134 C135,136	ECEA1HS010 ECEA1E101 ECEA1HS010 ECEA50ZR33	Electrolytic 50V 1 Electrolytic 25V 100 Electrolytic 50V 1	1 2	
R113 R114 R115 R116 R117 R118 R119	ERF3AKR56 ERD10TJ152 ERD10TJ683 ERD10TJ123 ERD10TJ102 ERD10TJ182 ERD10TJ221 ERD10TJ332	3W 0.56 1.5K 68K 12K 1K 1.8K 220 3.3K	1 1 1 1 1		C133 C134 C135,136	ECEA1HS010 ECEA1E101 ECEA1HS010 ECEA50ZR33	Electrolytic 50V 1 Electrolytic 25V 100 Electrolytic 50V 1	1 2	

Ref. No.	Part No.	Part Name & Description	Pcs / Set		Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	T	Miscellaneous	+		 			Set	
F101	XBA1F10NU14A	Fuse IA	1		R7302-7308	EWEU2A016B24	Resistors	-	<u> </u>
F102	XBA1F60NU14A	Fuse 6A	11		R7310-7316	EWEU2A016B24		K ¹ 7	
F104	XBA1F20NU14A	Fuse 2A	1		R7317		Variable 20		
A 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TJC6319	Fuse Holder	6		K/31/	ERDIOTJ681	680) 1	
	TEL302-5X	Connector Pin	8		 			1	
	TEL302	GT Pin	2		 	+	·		
P103	V\$P\$0090	5P Connector	1			<u> </u>	·		<u>i-</u>
P104,105	VSPS0089	3P Connector	2		l		Switches	<u>i</u>	
P106	VSPS0090	5P Connector	_	<u> </u>	SW7302-7308	V\$\$0050	VHF/UHF Channel Select	. 7	
P107,108	VSPS0089	3P Connector	1				Switches	i	
TH110			2		SW7310-7316	V\$\$0050	VHF/UHF Channel Select	. 7	
THITO	ERTD2ZHL332S	Thermistor	1				Switches	-	
	+			i .	SW7317	ESD3228	AFC Switch	Īī	
	÷				SW7318	VSP0099	Door Switch	1	÷
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		CHANNEL SELECT SWITCHES						+	
		CHANNEL SELECT SWITCHES 6 CHANNEL L.E.D.S C.B.A.					POWER & INDIT SELECT	_	
		i i					POWER & INPUT SELECT	-	
		i i					POWER & INPUT SELECT SWITCHES C.B.A.	- +	
		i i							
77303		& CHANNEL L.E.D.S C.B.A.	1				SWITCHES C.B.A.		
77303 77304		& CHANNEL L.E.D.S C.B.A.	1		0660	+	SWITCHES C.B.A.		
	MA150	& CHANNEL L.E.D.S C.B.A.			D6601	LN31GPH	Diodes	+	
7304	MA150 MA161C MA150	& CHANNEL L.E.D.S C.B.A.	1		D6601 D6602	LN31GPH	SWITCHES C.B.A.	+	
7304 7305	MA150 MA161C MA150 MA161C	& CHANNEL L.E.D.S C.B.A.	1 1			LN31GPH	Diodes	+	
7304 7305 7306 7307	MA150 MA161C MA150 MA161C MA161C	& CHANNEL L.E.D.S C.B.A.	1 1 1			LN31GPH	Diodes	+	
7304 7305 7306 7307 7308	MA150 MA161C MA150 MA161C MA161C MA161C	& CHANNEL L.E.D.S C.B.A.	1 1 1 1			LN31GPH	Diodes	+	
7304 7305 7306 7307 7308 7309	MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA161C	& CHANNEL L.E.D.S C.B.A.	1 1 1		D6602	LN31GPH LN21RPH	Diodes	+	
77304 77305 77306 77307 77308 7309 7310	MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1			LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1	
7304 7305 7306 7307 7308 7309 7310	MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1	
77304 77305 77306 77307 77308 77309 77310 77311	MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1	
17304 17305 17306 17307 17308 17309 17310 17311 17312	MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161 MA150	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1	
17304 17305 17306 17307 17308 17309 17310 17311 17312 17313	MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161 MA150 MA161 MA150 MA161C	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1	
17304 17305 17306 17307 17308 17309 17310 17311 17312 17313 17314	MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161 MA150 MA161C MA150 MA161C	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
17304 17305 17306 17307 17308 17309 17310 17311 17312 17313 17314 17315	MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161C MA150 MA161 MA150 MA161C MA150 MA161C MA161C MA161C	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
17304 17305 17306 17307 17308 17309 17310 17312 17312 17313 17314 17315 17316 17319	MA150 MA161C MA150	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1 1 1 1 1 1 1 1	
17304 17305 17306 17307 17308 17309 17310 17312 17312 17313 17314 17315 17316 17319	MA150 MA161C	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
7304 77304 77305 77306 77306 77308 77308 77309 77310 77311 77312 77313 77314 77315 77316 77319 77316 77319	MA150 MA161C MA150	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
17304 17305 17306 17306 17307 17308 17309 17310 17311 17312 17313 17314 17315 17316 17319 17320	MA150 MA161C	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
17304 17305 17306 17307 17308 17309 17310 17311 17312 17313 17314 17315 17316 17319 17320 17320 17321	MA150 MA161C MA150	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1	
17304 17305 17306 17307 17308 17309 17310 17311 17312 17313 17314 17315 17316 17319 17320 17320 17321 17322	MAISO MAI6IC MAI5O MAI6IC	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 7	
17304 17305 17306 17306 17307 17308 17309 17310 17311 17312 17313 17314 17315 17316 17319 17320 17321 17322 17323	MA150 MA161C MA150	& CHANNEL L.E.D.S C.B.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
17304 17305 17306 17307 17308 17309 17310 17311 17312 17313 17314 17315 17316 17319 17320 17320 17321 17322	MA150 MA161C	& CHANNEL L.E.D.S C.B.A.			D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
17304 17305 17306 17306 17307 17308 17309 17310 17311 17312 17313 17314 17315 17316 17319 17320 17321 17322 17323	MA150 MA161C	& CHANNEL L.E.D.S C.B.A.			D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches		
17304 17305 17306 17307 17308 17308 17309 17310 17312 17312 17313 17314 17315 17316 17319 17320 17321 17322 17323 17324 17325 17326 17327	MA150 MA161C	& CHANNEL L.E.D.S C.B.A.			D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	3	
17304 17305 17306 17307 17308 17308 17309 17310 17312 17312 17313 17314 17315 17316 17319 17320 17321 17322 17323 17324 17325 17327 17328	MA150 MA161C	& CHANNEL L.E.D.S C.B.A.			D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
17304 17305 17306 17306 17306 17307 17308 17309 17310 17311 17312 17313 17314 17315 17316 17319 17320 17321 17322 17323 17324 17325 17327 17328 17328	MAISO MAI6IC MAI50 MAI6IC	& CHANNEL L.E.D.S C.B.A.			D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	3	
17304 17305 17306 17306 17306 17307 17308 17309 17310 17312 17312 17313 17314 17315 17316 17319 17320 17321 17322 17323 17324 17325 17326 17327 17326 17327 17328 17328	MAISO MAI6IC MAI50 MAI6IC	& CHANNEL L.E.D.S C.B.A.			D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	3	
17304 17305 17306 17307 17308 17308 17309 17310 17311 17312 17313 17314 17315 17316 17319 17320 17321 17322 17323 17324 17325 17326 17327 17328 17328 17328 17329 173318	MAISO MAIGIC	& CHANNEL L.E.D.S C.B.A.			D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
17304 17305 17306 17306 17306 17307 17308 17309 17310 17312 17312 17313 17314 17315 17316 17319 17320 17321 17322 17323 17324 17325 17326 17327 17326 17327 17328 17328	MAISO MAI6IC MAI50 MAI6IC	& CHANNEL L.E.D.S C.B.A.			D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	3	
17304 17305 17306 17307 17308 17308 17309 17310 17311 17312 17313 17314 17315 17316 17319 17320 17321 17322 17323 17324 17325 17326 17327 17328 17328 17328 17329 173318	MAISO MAIGIC	& CHANNEL L.E.D.S C.B.A.			D6602	LN31GPH LN21RPH	Diodes L.E.D. L.E.D. Switches	1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs / Set	Pomento
		PROGRAMMABLE TIMER C.B.A.			R6755	ERDIOTJ104	100K	1	
		THOUGHT THE THE TOTAL			R6756	ERD25TJ562	1/4W 5.6K	1	
					R6757	ERDIOTJ101	100	1	***************************************
		Integrated Circuits			R6758	ERDIOTJ104	100K	1	
106705	MN1400VL	3	1		R6759	ERDIOTJ472	4.7K	1	
106706	MN1405VM		1		R6760	ERDIOTJ104	100к	1	
106707	MN1206A		1	***	R6762	ERDIOTJ104	100К	1	
100,07					R6763	ERDIOTJ473	47K	: 1	
		Transistors			R6764	ERD25TJ681	1/4w 680	1	
Q6701-6719	2\$A1023(Q,R)		19		R6765	ERD10TJ222	2.2K	1	
	or 2\$B726(R,S,	1)			R6766	ERD10TJ102	1K	1	
Q6720	2SB641(Q,R)	,	1		R6767	ERD10TJ472	4.7K		
C722	or 2\$A733(Q,R)		-		R6768	ERDIOTJ103	10К	1	·
Q6721-6727	2SD636(Q,R)		7		R6769	ERD10TJ273	27K	1	
Q6728	2SA719(Q,R,S)	1	1		R6770	ERDIOTJ181	180	i	!
Q0720	or 2SB643(Q,R,	١	<u> </u>		R6771	ERD10TJ102	1K	† -	
Q6729	2SD743(0,P,Q)		1		R6773	ERDIOTJ103	10K	i	
00723	or 2SD762(0,P,	4)			R6774	EVN38CA00B53	Variable 50	1	-
06720 6721		1	2		R6775,6776	ERDIOTJ562	5.6K	2	1
06730,6731	2SD636(Q,R)				+			+	
Q6732	2SD638(R,S,T)	T)	1		R6777 R6778	ERDIOTJ331 ERDIOTJ102	330	1	
06722	or 2SC1317(R,S	ş l <i>f</i>	,		4	_	1K	1	
06733	2SC1384(Q,R)		1		R6779	ERD10TJ472	4.7K	1	
Q6734-6736	2SD636(Q,R)		3		R6780	ERD10TJ684	680K	1	
F	_÷.				R6781,6782	ERDIOTJ561	560	2	
··· ·i-					R6783	ERD10TJ331	330	1	
		Diodes			R6784	ERD10TJ562	5.6K	1	
D6717-6732	MA150	-	16		R6785	ERDIOTJ153	15K	: 1	
D6734	ERAO1-13R	·	1		R6786	ERD25TJ100	1/4W 10	1	
D6735	MA150	<u> </u>	1_		R6787,6788	ERD10TJ102	1K	2	
D6736	ERA81-004G		1		R6791-6793	ERDIOTJ472	4.7K	3	· · · · · · · · · · · · · · · · · · ·
D6737	RU1Z or	:	1		R6794	ERD25TJ472	1/4w 4.7K	1	·
	ERB28-02 or	<u>+</u>			R6795	ERD25TJ5R6	1/4W 5.6	1	
	ERB28-04				R6796	ERDIOTJ104	100K	1	
D6738	MA522(R,S)		1		RX6703,6704	EXBP88473M	Complex Compo. 47K	2	
ļ		i			1	EVED 001 004	(Resistor)		
D6739	MA150	<u> </u>	1		RX6706	EXBP88103M	Complex Compo. 10K	'	
D6740	RD5,6JB	Zener	1		1		(Resistor)	L	
D6741	RD6,2JB	Zener	. 1_	·					
D6742	ECQA01-108R		1	-					
D6743	ERA81-004G		1		1			<u></u>	
D6744	RDITEB		1				Capacitors	Ĺ.,	
D6745	RD20EB	Zener	1		C6701	ECEAOJS470	Electrolytic 6.3V 47		
D6746	MA150	<u></u>	1		C6702	ECEA1ES4R7	Electrolytic 25V 4.7	·	
D6749	MA150		1		1	or ECEATES4R7S			
D6750	MA150FV		1		C6703	ECEA1CS100		1	
06751	MA150		1		C6705	ECV1ZW20X32	Trimmer 20P		<u> </u>
D6755	RD6,8EB	Zener	1		C6706	ECEA1HS3R3	Electrolytic 50V 3.3		
D6756	MA150		1	ļ <u></u>	C6707	ECEAICS100		1	
					C6708	ECEA1ES330	I .	1	
					C6709	ECQM1H333MZ	Polyester Film 50V 0.0033		
	<u>:</u>	Resistors			C6710	ECEA1CS100	Electrolytic 16V 10	ь.	
R6701	ERD10TJ332	3.3K	1		C6711	ECKW1H103PF	Ceramic 50V 0.01		
R6702	ERDIOTJ103	10K	1		C6712	ECEA1AS102	Electrolytic 10V 1000		
R6703	ERDIOTJ272	2.7K	1		C6713	ECEA1CS220		1	
R6704-6721	ERDIOTJ273	27К			C6714	ECEAICS100		1	
R6722	ERDIOTJ273	27K	1		C6715	ECKW1H471KB	Ceramic 50V 470P	1	
R6723-6737	ERD10TJ273	27K	15		C6716	ECEAOJS101	Electrolytic 6.3V 100	1	
R6738	ERDIOTJ473	47K			C6717,6718	ECKW1H103PF	Ceramic 50V 0.01	2	
R6739	ERDIOTJ153	15K	1		C6719	ECEA1AS101	Electrolytic 10V 100	1	
R6740,6741	ERDIOTJ103	10K	2		C6720	ECCWIH470K	Ceramic 50V 47P	1	
R6742	ERDIOTJ563	56K	1		C6721	ECCW1H030CC	Ceramic 50V 3P	1	
R6743,6744	ERDIOTJ103	10K	2			or ECCW1H050CC	5		i
R6745	ERD10TJ222	2.2K	1		C6722,6723	ECKW1H102KB	Ceramic 50V 0.001	2	
R6746	ERDIOTJ681	680	1	<u></u>	C6724	ECQM1H472MZ	Polyester Film 50V 0.0047		
R6748	ERGIAN100C	Metal Oxide Film IW 10	1		C6725	ECKW1H103PF	Ceramic 50V 0.01		
R6749,6750	ERD10TJ334	330K	2		C6726	ECEA1CS100	Electrolytic 16V 10		
R6751	ERD1013334	IK	1		C6728		Electrolytic 16V 10		-
R6752	ERDIOTJ104	100K	1		C6729		Electrolytic 10V 1000		
R6753			1			or ECEAIAS102S	1000		
	ERD10TJ473	47K	. 1		1	3.2			
R6754	ERD25TJ392	1/4W 3.9K	ì		J <u>L</u>				

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Miscellaneous						+-	
L6701	VLQ80F101K	Coil	1				CHANNEL SELECTOR C.B.A.		
T6701	VTP0043	DC-DC Converter	1					T	
							Integrated Circuits	+	
					106701-6704	DN852		4	<u> </u>
+		Trans.	+		1	or DN852P	 		
x6701	V\$X0071	Crystal	1				+	1	
DP6701	V\$L0003	Display Tube	1		1		1	+	
DF6/01	TJE98101	Check Terminal	1		+			-	-
·	VSC0486	· · · · · · · · · · · · · · · · · · ·	1		 		Diodes		-
	+	Heat Sink Plate	-+		D6701-6714	MA161C	Diodes	14	
P6701	VJPS0097	8P Connector	1		D6752,6753	MA150			
P6702	VJP1093	4P Connector	1		06/52,6/53	IMAT50		2	,
P6703	VJPS0091	10P Connector	1						
P6704	VJPS1141	2P Connector	. 1					1	
P6705	VJPS1144	6P Connector	1						
P6706	VJPS1145	8P Connector	: 1				Miscellaneous		
P6707	VJPS1141	2P Connector	1		RX6701,6702	EXBP88103M		(2	
P6708	VJPS1147	12P Connector	1]		(Resistor)		
P6709	VJPS1146	10P Connector	1						
F6701	XBA1C10NU100	Fuse 1A	1						
	TJC6320	Fuse Holder	2						
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		TIMER OPERATING C.B.A.					POWER TR C.B.A.	:	
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	T	Switches			0109,117	2902665	Power TR.	2	
SW6701	ESD1423	Slide	1		R155,156	ERD10TJ470	Resistor 47	2	
SW6702-6710	EVQ-PXRO4K	Timer	9					i	
	or VSP0102		-	,	1	:			
SW6711,6712	ESD14125	Slide	2	· · · · · · · · · · · · · · · · · · ·	1				
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Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		BATTERY CHARGE LAMPS C.B.A		
		PARTENT STANCE EARLY C.O.A.		
	 	Diodes		
D6603	LN31GPHL	L.E.D.	1	
06604,6605	LN21RPHL	L.E.D.	2	
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		UHF/VHF BAND SELECT		
		SWITCH & POTENTIOMETER		
		C.B.A.		
	<u> </u>	-		
		Diodes	-+	
7202-7208	LN31GCP-UHL	L.E.D.	7	
210-7216	LN31GCP-UHL	L.E.D.	7	
	-			***************************************
	+		-	
		Resistors	-+	
202-7208	ERDIOTJ181	180	7	
210-7216	ERD10TJ181	180	7	
	+			
	ļ			
	-	Switches	-	
7206-7208	EVQ-Q7R13K	Switches Channel Switch	7	- n 1 a
7210-7216	EVQ-Q7R13K		7	7
		T		

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		ELECTRICAL PARTS		
		LOCATED ON CHASSIS		-
			20 00 02 00 00 00 00 00 00 00 00 00 00 0	
	VFASO001	Battery	1	
	TNV76704F2	Tuner	1	
	ETP66PU5A	Power Transformer	1.1	
	ENPD607	Antenna Terminal	1	
	8010ACV	AC Cord	10.0	363045747
	VMAS0347	P.B. Angle	1	
	VJJ0020	Pin Jack	1	
	VMAS0351	P.B. Angle	1	
	VEC\$0038	4P Cable	1	
	VECS0039	10P Cable	1	
	VME0049	Bushing	1	
	VSQS0012	MICA	2	
	VSC0477	Heat Sink Plate	1	
	vsco485	Heat Sink Plate	1	
	or VSCS0059			
	VSCS0068	Shield Case	1	
	VSC0479	Shield Case	1	
	VSC0480	Shield Case	1	V
	хтv3+8в	Tapping Screw (3x8)	2	
	XYN3+F12FNS	Screw With Washer (3x12)	3	
	N060	Washer	1	
	N050A	Nut	1	
	XNG3	Nut	2	
	VMX0185	L.E.D Spacer	3	
	TJE98101	Check Terminal	3	
	XYN3+F12FNS	Screw With Washer (3x12)		
1	N060	Washer	1	
	N060	Nut	1	
	TJC6320	Fuse Holder	2	
	+	1	-	